SONY

CONTROL UNIT

SX-M700
SX-M100

EXPANSION UNIT

SX-E120

EXPANSION BOARD

SXA-120

TELEPHONE COUPLER

SX-T100

SERVICE MANUAL

2nd Edition

SX-M100	J	11001 and Higher	SX-E120	J	11001 and Higher
	U	21001 and Higher		U	21001 and Higher
	EK	51001 and Higher		EK	51006 and Higher
SX-M700	J	11011 and Higher	SX-T100		10001 and Higher
	U	21001 and Higher	SXA-120		11001 and Higher
	EK	51001 and Higher			

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This section is extracted from operation manual.

3-759-748-13 (1)

SONY

Simultaneous Interpretation Conference System

Model:

SX-M700 Control Unit
SX-C700A/C750 Chairman's Unit
SX-D700A/D750 Delegate's Unit
SX-P700 Interpreter's Unit
SX-T100 Telephone Coupler

Operating Instructions
Before operating the unit, please read this manual thoroughly and retain it for future reference.

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http://getMANUAL.com

Owner's Record

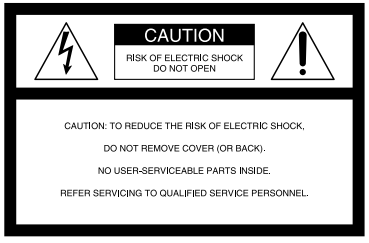
The model and serial numbers are located on the rear of the SX-M700 and on the bottom of the SX-C700A/C750/D700A/D750/P700/T100. Record the serial numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding these products.

Model No. SX-M700 Serial No._____
Model No. SX-C700A/C750 Serial No._____
Model No. SX-D700A/D750 Serial No._____
Model No. SX-P700 Serial No._____
Model No. SX-T100 Serial No._____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

For the customers in the U.S.A.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For the customers in Canada

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Pour les utilisateurs au Canada

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

NOTICE FOR THE CUSTOMERS IN THE UNITED KINGDOM

WARNING
THIS APPARATUS MUST BE EARTHED

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow: Earth
Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Für Kunden in Deutschland

Dieses Produkt kann im kommerziellen und in begrenztem Maße auch im Industriellen Bereich eingesetzt werden. Dies ist eine Einrichtung, welche die Funk-Entstörung nach Klasse B besitzt.

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Outline

Features

The SX-M700 simultaneous interpretation conference system is designed to allow delegates' speeches to be interpreted into a maximum of six languages. Delegates in a conference hall can thus listen to any of the interpreted languages.
The standard system supports a conference of up to 60 delegates. Connecting the SX-E120 Expansion Unit (not supplied) allows the system to support up to 120 delegates. The SX-T100 Telephone Coupler (not supplied) allows the use of a telephone line during a conference. By using the telephone, a person not actually in the conference hall can also take part in the conference.

The standard system consists of the following units.

- SX-M700 Control Unit
  This unit controls the simultaneous interpretation conference system.
  The control unit can be mounted in a 19-inch rack.
- Chairman's Unit/Delegate's Unit
  – SX-C700A/D700A Chairman's Unit/Delegate's Unit: Desktop type. You can move these units freely in the conference room.
  – SX-C750/D750 Chairman's Unit/Delegate's Unit: Desk-mounted type. These units are fixed to the desks.
  These units feature both a microphone and speaker.
  Use the above combination of the chairman's unit and delegate's unit.
- SX-P700 Interpreter's Unit
  This unit, connected to the control unit, is used by a simultaneous interpreter.
- SX-T100 Telephone Coupler
  This coupler is used to connect the control unit to a telephone line. Using this coupler allows a person to take part in a conference from a remote location, even from overseas.

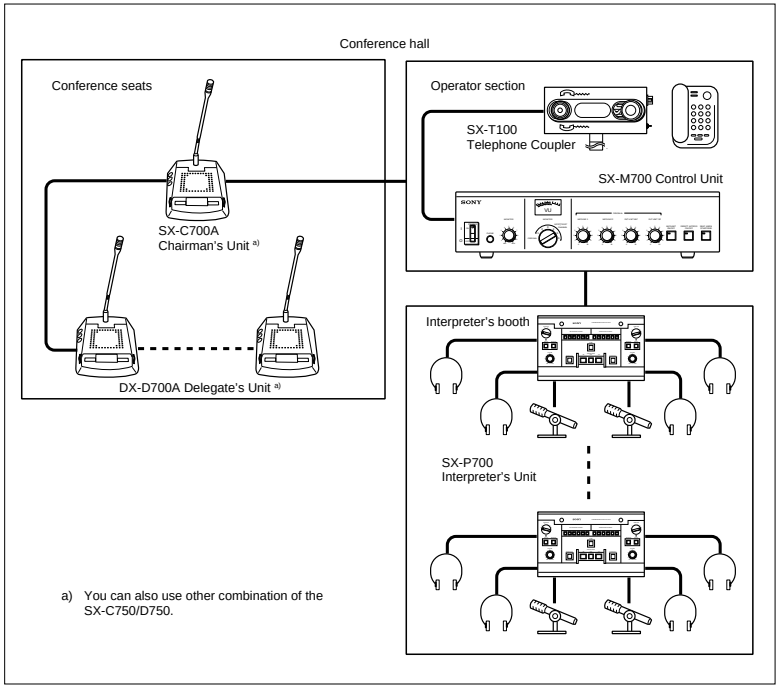
In addition to the units described above, the following optional units are available.
SXA-120 Expansion Board
The board is designed to allow the expansion of the system's functions. Installing this board in the control unit allows the following function expansion units to be connected.

- SX-E120 Expansion Unit
- SX-8300/S100 Microphone Control Panel
  Used to enable or disable delegates' microphones.
  When multiple SX-8300 microphone control panels are used, the power interface unit is required.
  When the SX-S100 microphone control panels are used, they are connected using only the connecting cables.
  For detailed information on the power interface unit, contact your Sony dealer.
- Personal computer

For details of the SXA-120 Expansion Board, refer to the manual supplied with the expansion board.

System Configuration

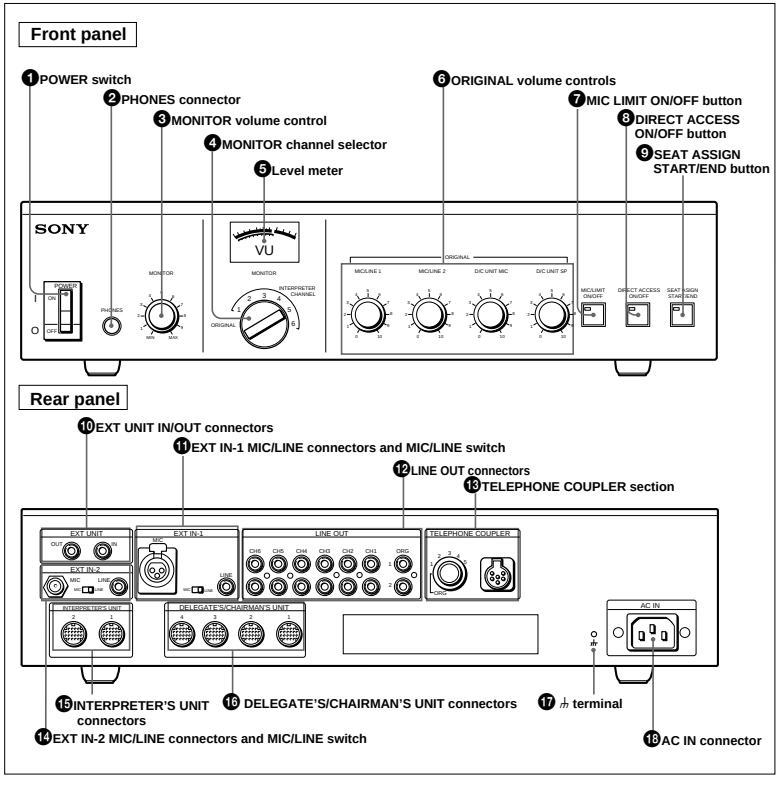
The figure below shows an example of the simultaneous interpretation system.



a) You can also use other combination of the SX-C750/D750.

Location and Function of Parts and Controls

SX-M700 Control Unit



❶ POWER switch

Setting the switch to ON (**I**) turns the power on. The level meter will light.
Setting the switch to OFF (**O**) turns the power off.

❷ PHONES connector (stereo phone jack)

Connect 8-ohm stereo or monaural headphones. Note that the output is monaural even when stereo headphones are connected.

❸ MONITOR volume control

Adjusts the volume of the headphones.

❹ MONITOR channel selector

Selects the channel corresponding to the interpreted language to be monitored through the headphones (INTERPRETER CHANNEL 1 to 6). To monitor the original speech, set the selector to ORIGINAL.

❺ Level meter

Indicates the output level of the audio signal selected by the MONITOR channel selector ❹. When the MONITOR channel selector is set to ORIGINAL, the level meter also indicates the level of the original sound output to the LINE OUT ⓬, TELEPHONE COUPLER ⓭, and INTERPRETER'S UNIT ⓯ connectors.

❻ ORIGINAL volume controls

Used to adjust the level of the following sound.

D/C UNIT SP volume control: Adjusts the level of the audio signal output to the chairman's unit/delegate's unit.

D/C UNIT MIC volume control: Adjusts the input level of the audio signal sent from the microphones on the chairman's units and delegate's units.

MIC/LINE 1 volume control: Adjusts the input level of the signal input through the EXT IN-1 MIC or LINE connector.

MIC/LINE 2 volume control: Adjusts the input level of the signal input through the EXT IN-2 MIC or LINE connector.

When the MIC/LINE switch of the EXT IN-1 or EXT IN-2 connector is set to LINE, the input level of the signal input through the LINE connector can be adjusted.
When the MIC/LINE switch of the EXT IN-1 or EXT IN-2 connector is set to MIC, the input level of the signal input through the MIC connector can be adjusted.

❼ MIC (microphone mode) LIMIT ON/OFF button

Selects the microphone mode for the delegate's units.
The microphone of the chairman's unit remains live regardless of the setting of this button.

MIC (microphone) LIMIT ON: Press this button to set the microphone to the speaker's number limitation mode. The button indicator lights. Setting this mode allows the microphones of up to five delegate's units to be live at the same time.

MIC (microphone) LIMIT OFF: Press the button again to set the microphone to the speaker's number unlimitation mode. The button indicator goes out. Setting this mode allows the microphones of all delegate's units to be live at the same time.

❽ DIRECT ACCESS ON/OFF button

This button is effective only when the SXA-120 Expansion Board (not supplied) is installed and the SX-8300/S100 Microphone Control Panel is connected to the control unit.
While the SX-8300/S100 is not connected, this button indicator lights, even though it is not operative. The button indicator does not go out even if you press this button.

❾ SEAT ASSIGN START/END button

This button is effective only when the SXA-120 Expansion Board (not supplied) is installed and the SX-8300/S100 Microphone Control Panel is connected to the control unit for performing seat assignment.
While the SX-8300/S100 Microphone Control Panel is not connected, the button indicator does not light even if you press the button.

For details of the functions and how to use the DIRECT ACCESS ON/OFF and SEAT ASSIGN START/END buttons, refer to the manuals supplied with the SXA-120 Expansion Board.

❿ EXT UNIT IN/OUT (external unit input/output) connectors (phone jack)

Connect to the howling suppressor unit or filter unit (not supplied).

Notes

- Be sure to connect both the IN and OUT connectors. Connecting only one of the two connectors results in incorrect operation of the unit.
- When it is not necessary to use the howling suppressor or filter unit, disconnect cables from both connectors.

⓫ EXT IN-1 MIC/LINE (external 1 microphone/line signal input) connectors and MIC/LINE switch

EXT IN-1 MIC/LINE connectors

Accept an external audio signal.

MIC connector (XLR type): Connect a rostrum or conference hall microphone.

Note

When you use a connecting cable with an XLR connector, pin No.1 and the case (metal part) of which are connected, noise may be picked up.

LINE connector (phono jack): Connect to external equipment such as audio equipment.

MIC/LINE switch
Selects the signal input to the EXT IN-1 connector.
MIC: Set the switch to this position when a microphone is connected.
LINE: Set the switch to this position when an item of audio equipment is connected.

⓬ LINE OUT (line output) connectors (phono jacks)
Supply the original signal from the chairman's unit/delegate's unit, that from the rostrum or conference hall microphone, as well as the six channel simultaneously interpreted output signals. There are two connectors for each channel. Use these connectors when recording the output to a tape recorder or when sending the line output to the monitor system transmitter by means of an infrared or induction-based system.
The original sound is also output automatically from any channel that is not being used for simultaneous interpreting.

⓭ TELEPHONE COUPLER section
TELEPHONE COUPLER connector (6-pin multi-connector)
Connect to the SX-T100 telephone coupler (not supplied).

TELEPHONE COUPLER channel selector
Selects the channel to be output to the telephone line.

⓮ EXT IN-2 MIC/LINE (external 2 microphone/ line signal input) connectors and MIC/ LINE (microphone/line signal select) switch
EXT IN-2 MIC/LINE connectors
Input an external audio signal.
MIC connector (phone jack): Connect a rostrum or conference hall microphone.
LINE connector (phono jack): Connect to external equipment such as audio equipment.
MIC/LINE switch
Selects the signal input to the EXT IN-2 connector.
MIC: Set the switch to this position when a microphone is connected.
LINE: Set the switch to this position when an item of audio equipment is connected.

⓯ INTERPRETER'S UNIT connectors (20-pin multi-connectors)
Connect to the SX-P700 Interpreter's Units. The same signal is output from two connectors. Up to seven SX-P700 units can be connected to the two connectors.

⓰ DELEGATE'S/CHAIRMAN'S UNIT connectors (20-pin multi-connectors)
Connect to the SX-C700A/C750/SX-D700A/D750 Chairman's Unit/Delegate's Unit. The same signal is output from four connectors. Up to 15 SX-C700A/C750/SX-D700A/D750 units can be connected to each of the four connectors. Thus, up to 60 SX-C700A/C750/SX-D700A/D750 units can be connected.

Note
A dust cap is attached to each of the INTERPRETER'S UNIT connectors ⓯ and DELEGATE'S/CHAIRMAN'S UNIT connectors ⓰. Keep the dust caps on any connectors which are not being used.

⓱ ⏚ (signal ground) terminal
Ground if necessary.

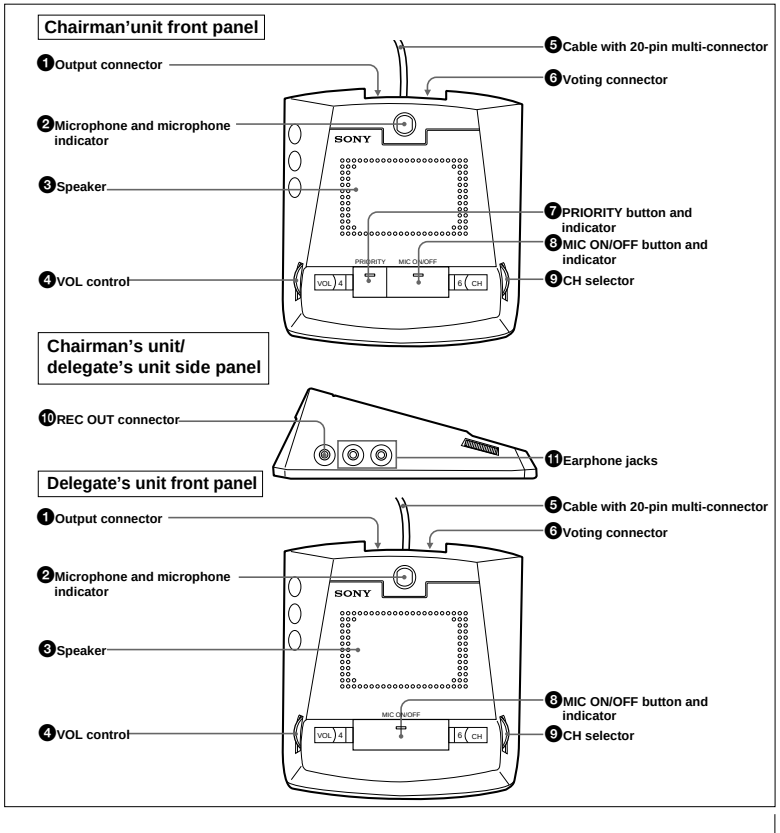
⓲ AC IN (AC power input) connector
Connect the unit to an AC power source by means of the supplied AC power cord.

SX-C700A/C750/SX-D700A/D750 Chairman's Unit/Delegate's Unit

The following two combinations of the chairman's unit and delegate's unit are available for use with the system.
- SX-C700A/D700A Chairman's Unit/Delegate's Unit
- SX-C750/D750 Chairman's Unit/Delegate's Unit

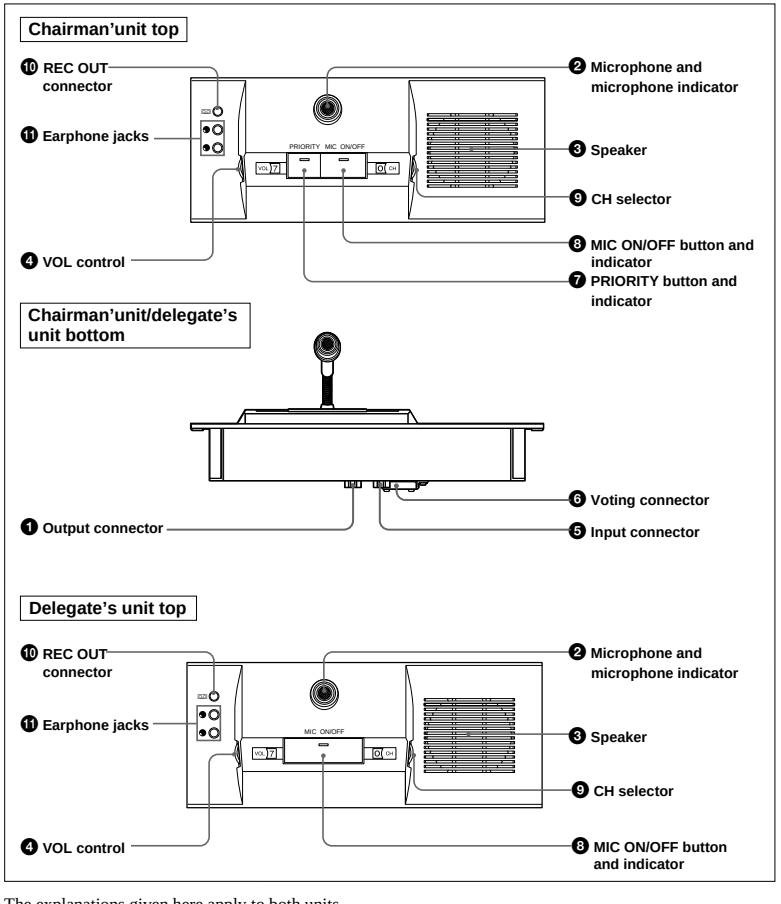
This section explains the location and function of parts and controls of the chairman's unit and delegate's unit. The explanation applies to both combinations. Read the explanation corresponding to the numbered parts and controls in the illustration.

SX-C700A/D700A Chairman's Unit/Delegate's Unit



Location and Function of Parts and Controls

SX-C750/D750 Chairman's Unit/Delegate's Unit



The explanations given here apply to both units, unless noted otherwise, with the exception of PRIORITY button ❼.

❶ Output connector (20-pin multi-connector) (for SX-C700A/D700A only)

Connect the cable with a 20-pin multi-connector of the chairman's unit/delegate's unit placed opposite the SX-M700 Control Unit and the next chairman's unit/delegate's unit.

❶ Output connector (D-sub 15-pin) (for SX-C750/D750 only)

Connect to the input connector of the next chairman's unit or delegate's unit using the cable with D-sub 15-pin connectors.

❷ Microphone and microphone indicator

The microphone can be rotated freely. The microphone operation depends on the setting of the MIC ON/OFF button ❽.

For details, see the explanation of the MIC ON/OFF button ❽ of the control unit.

❸ Speaker

The original sound is heard through this speaker when the microphone is not being used and when an earphone is not plugged into the earphone jack. The speaker's volume is adjusted from the SX-M700 Control Unit. To prevent howling, nothing is output from the speaker when the microphone of the chairman's/delegate's unit is enabled. Also at the same time, the speaker volume of the units on either sides of the unit is automatically reduced.

❹ VOL (volume) control

Adjusts the volume of the earphone. Even if the VOLUME control is turned fully counterclockwise, the earphone volume cannot be turned off. (The speaker volume is not affected by this control.)

❺ Cable with 20-pin multi-connector (for SX-C700A/D700A only)

Connect to the DELEGATE'S/CHAIRMAN'S UNIT connector of the SX-M700 Control Unit, SX-E120 Expansion Board (not supplied) or the output connector of another chairman's unit/delegate's unit.

❺ Input connector (D-sub 15-pin) (for SX-C750/D750 only)

Connect to the DELEGATE'S/CHAIRMAN'S UNIT connector of the SX-M700 Control Unit, SX-E120 Expansion Board (not supplied) or the output connector of another chairman's unit/delegate's unit.

❻ Voting connector

Connect to the SX-CV10/DV10 voting unit (not supplied).
For details, contact your Sony dealer.

❼ PRIORITY button and indicator (for the SX-C700A/C750 only)

Press this button to disconnect the microphones of the delegate's units and enable the use of only the microphone of the chairman's unit.
Holding down this button turns on the microphone of the chairman's unit.
The PRIORITY button blinks while the SLOW button on the interpreter's unit is held down.

❽ MIC ON/OFF button and indicator

SX-C700A/C750: Pressing this button turns the microphone on. The MIC ON/OFF button indicator and microphone indicator ❷ light. Pressing this button again turns the microphone off. The indicators go out.

SX-D700A/D750: When the MIC LIMIT ON/OFF button on the control unit is set to OFF (the MIC LIMIT ON/OFF button indicator does not light), pressing this button turns the microphone on. The MIC ON/OFF button indicator and microphone indicator ❷ light. In this mode, since the number of speakers is not limited, the microphones of all the delegate's units are enabled.
When the MIC LIMIT ON/OFF button on the control unit is set to ON (the MIC LIMIT ON/OFF button indicator is lit), the number of speakers is limited. Thus, when the MIC ON/OFF buttons of more than six delegate's units are pressed at the same time, the indicator of the sixth delegate's unit blinks (for about 3 seconds) to tell the user that the microphone cannot be enabled since the number of units whose MIC ON/OFF button is pressed exceeds six.

❾ CH (channel) selector

Select the signal to be output to the earphone jack and the REC OUT connector. You can select either the original signal, or channel 1 to channel 6.

❿ REC OUT (recording output) connector (minijack)

Connect to the input connector of the tape recorder to record the monitor sound. To record a signal other than the original signal, plug the earphone into the earphone jack and select the channel corresponding to the desired interpreted language with the CH selector ❾. When the earphone is unplugged, the original signal is output from this connector regardless of the CH selector setting.

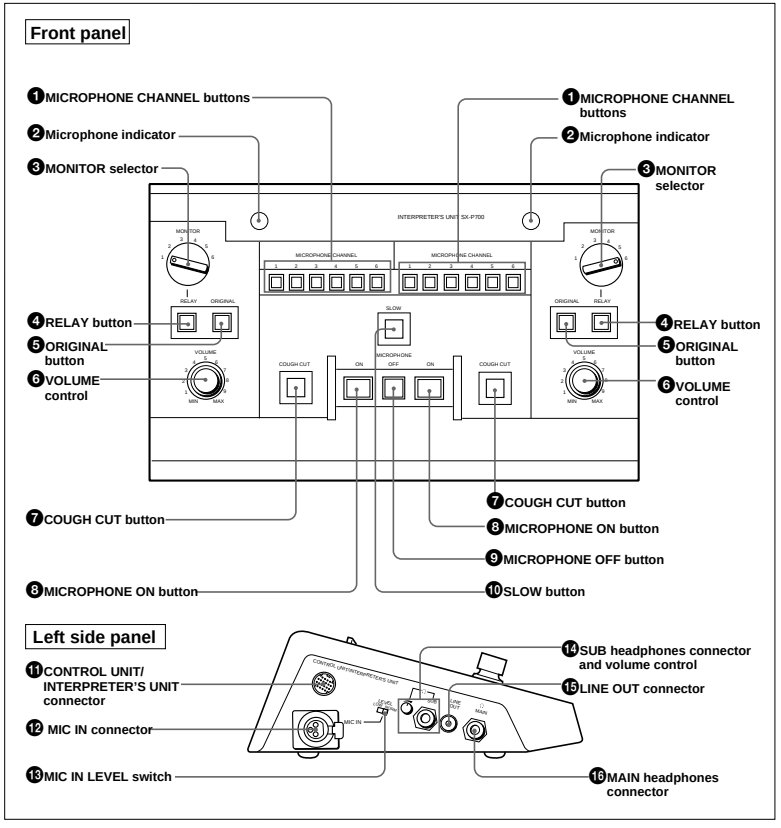
Note

Use a connecting cable with a terminating resistor (RK-G64 and so on) to connect the unit to the microphone input connector of a tape recorder. Use a connecting cable without a terminating register (RK-G69 and so on) to connect the unit to the line input connector of a tape recorder.

⓫ Earphone jacks (minijack)

Connect an earphone to monitor the signal from the interpreter's unit or the original signal.

SX-P700 Interpreter's Unit



Front panel

The interpreter's unit is designed to be used by two interpreters. There are two sets of controls ❶ to ❽ on the left section and right section of the unit. Their functions are exactly the same. Buttons ❾ and ❿ are common to both left and right sections. Either of the two interpreters can use these buttons.

❶ MICROPHONE CHANNEL buttons

Press the button corresponding to the channel for the target language (channel 1 to channel 6) such that the indicator lights.

Notes

- Should you accidentally press the wrong button while you are interpreting, your voice will be output on the wrong channel.
- When the system power is turned on or the power is turned off and back on again, channel 1 is automatically selected (the button of channel 1 automatically lights).

❷ Microphone indicator

Lights when the MICROPHONE ON button is pressed. While this indicator is lit, the corresponding interpreter's microphone is enabled.

❸ MONITOR selector

Selects the channel of the language to be monitored when relay interpreting is being performed. This selector is effective only when the RELAY button ❹ is pressed.

❹ RELAY button

Used to perform relay interpreting. Press to monitor the language selected with the MONITOR selector ❸ through the headphones (the button lights).

❺ ORIGINAL button

Press to monitor the original signal through the headphones (the button lights).

RELAY button and ORIGINAL button

When the RELAY button is pressed, it lights and the ORIGINAL button goes out. The interpreter can then monitor the language selected with the MONITOR selector ❸. When the ORIGINAL button is pressed, it lights and the RELAY button goes out. The interpreter can monitor the original signal.

When the system power is turned on or the power is turned off and back on again, the ORIGINAL button automatically lights.

❻ VOLUME control

Adjusts the volume of the main headphones of the main interpreter.

❼ COUGH CUT button

Press to disable the microphone temporarily. The microphone is disabled and the microphone indicator ❷ does not light for as long as the interpreter holds down the button.

❽ MICROPHONE ON button

Press this button to enable the microphone. The microphone indicator lights while the microphone is live. When another interpreter presses his or her MICROPHONE ON button, this microphone is disabled.

❾ MICROPHONE OFF button

Press the button to disable the microphone such that the MICROPHONE ON button goes out.

❿ SLOW button

Press to request that the speaker speaks slowly. While the interpreter is holding down this button, the PRIORITY button on the chairman's unit blinks.

Left side panel

The following connectors and switches ⓫, ⓬, ⓭, ⓮ and ⓰ are located on both sides of the interpreter's unit. The LINE OUT connector ⓯ is provided only on the left side.

⓫ CONTROL UNIT/INTERPRETER'S UNIT connector (20-pin multi-connector)

Two connectors on the left and right sections have the same function. Connect to the CONTROL UNIT/INTERPRETER'S UNIT connector of the next interpreter's unit by using the RK-1705/1700 connecting cable (5m or 16.4 feet/10m or 32.8 feet) (not supplied). When the interpreter's unit is placed next to the SX-M700 Control Unit, connect to the INTERPRETER'S UNIT connector of the control unit.

⓬ MIC IN (microphone input) connector (XLR 3-pin)

Connect a microphone having an XLR connector.

⓭ MIC IN LEVEL switch

Selects the output level of the microphone connected to the MIC IN connector.

NORM (normal): Normally, set the switch to this position.

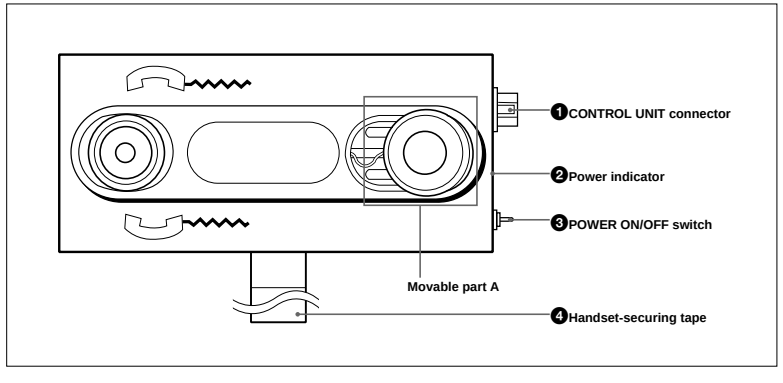
LOW: Set the switch to this position when a microphone having a low output level is being used.

⓮ SUB headphones connector (phone jack) and volume control
Connect 8-ohm headphones for the sub-interpreter. Adjust the volume of the sub-headphones with this volume control.

⓯ LINE OUT (output) connector (phono jack) (left section only)
Connect a speaker having a built-in amplifier. The language which can be heard through the connected speaker depends on the setting of the MONITOR selector ❸, RELAY button ❹ and ORIGINAL button ❺ of the left section. When the interpreter turns on the microphone, this speaker is automatically muted.

⓰ MAIN headphones connector (phone jack)
Connect 8-ohm headphones for the main interpreter. Either stereo or monaural headphones can be used. The monaural sound, however, is output from the headphones.

SX-T100 Telephone Coupler



❶ CONTROL UNIT connector (6-pin multi-connector)
Connect to the TELEPHONE COUPLER connector of the SX-M700 Control Unit, using the connecting cord supplied with the SX-T100.

❷ Power indicator
This indicator lights when the telephone coupler power is turned on.

❸ POWER ON/OFF switch
Turns the telephone coupler power on or off .

Note
When the POWER ON/OFF switch is set to ON, howling or noise may arise because the microphone and the speaker are enabled. When the telephone coupler is not used, set the POWER ON/OFF switch to OFF.

❹ Handset-securing tape
After being connected to other party telephone, place your handset on the telephone coupler and secure it with the handset-securing tape. Adjust the movable part A in the above illustration, to fit the handset being used.

Note
If the handset is not secured firmly, communication may not be satisfactory.

Setting Up the System

Precautions

Safety precautions

Power supply
- Operate the unit only with a power source as specified in “Specifications” section.
- Do not drop or place heavy objects on the power cord. If the power cord is damaged, turn off the power immediately. It is dangerous to use the unit with a damaged power cord.
- Disconnect the power cord from the AC outlet by grasping the plug, not by pulling the cord.

Keep foreign objects out of the cabinet
Dropping flammable or metal objects into the cabinet, or spilling liquids onto the cabinet can lead to accidents.

In case of malfunctions
If you notice any unusual sound, smell or smoke, turn off the power immediately, disconnect the power supply and contact your Sony dealer.

Cleaning

Clean the cabinet and panels by wiping with a soft, dry cloth. For severe stains, moisten the cloth with a small amount of neutral solvent, and finish by wiping with a dry cloth. Do not use alcohol, benzine, thinner or volatile liquids, as these may discolor or damage the cabinet surface.

System Connection

This section explains how to connect the system.

Chairman's unit/delegate's unit and interpreter's unit

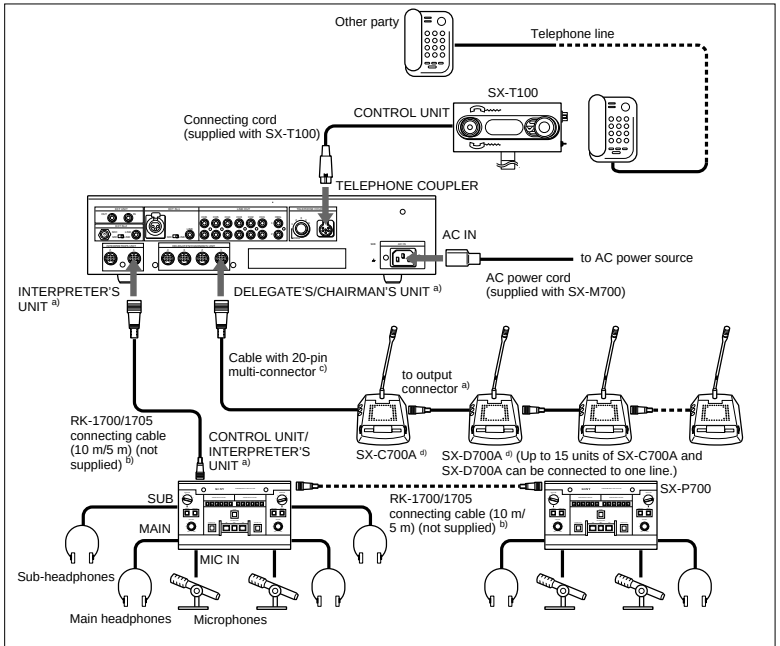
The SX-M700 Control Unit is provided with four DELEGATE'S/CHAIRMAN'S UNIT connectors and two INTERPRETER'S UNIT connectors. Up to 15 chairman's/delegate's units can be connected to each of the DELEGATE'S/CHAIRMAN'S UNIT connectors in serial connection. The distance between the control unit and the last chairman's/delegate's unit should not exceed 60 meters (196.8 feet).

A total of seven interpreter's units can be connected to the two INTERPRETER'S UNIT connectors. For example, three units can be connected to one connector and four units to the other. The distance between the control unit and the last interpreter's unit should not exceed 60 meters (196.8 feet).

Notes

- Be sure to turn off the power of any units before attempting connection or disconnection.
- The SX-C100A/C150/D100A/D150 Chairman's Unit/Delegate's Unit, designed for the conference system, can be connected to configure this simultaneous interpretation system. However, interpreted languages cannot be heard via these SX-C100A/C150/D100A/D150 units. Also, after the system power is turned on, the microphone indicator and MIC ON/OFF buttons of the chairman's unit and delegate's unit continue to blink for about 3 seconds to inform that the SX-C100A/C150/D100A/D150 units for conference system have been connected to the simultaneous interpretation system.
- If you turn on the system power before connecting the chairman's unit/delegate's unit, the microphone indicators and MIC ON/OFF buttons continue to blink and these units cannot be controlled by the control unit. In such a case, turn the power off, then back on again.
- When using the INTERPRETER'S UNIT connectors (20-pin multi-connector) and DELEGATE'S/CHAIRMAN'S UNIT connectors (20-pin multi-connector) of the control unit, attach the dust caps removed from the 20-pin multi-connectors on the control unit to the 20-pin multi-connectors on the last unit connected.
  If the 20-pin multi-connector has no dust cap, keep it away from metal tools, such as screwdrivers to prevent the connectors being inadvertently shorted.
- Do not set the POWER switch of the SX-M700 to ON again promptly after the POWER switch is set to OFF. If you do so, the power of the SX-M700 may not be turned on, or the software built in the SX-M700 may not start. Be sure set the POWER switch to ON again 30 seconds or more after the power is turned off.

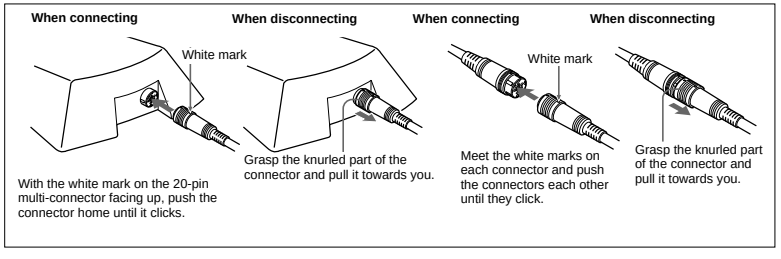
The figure below shows an connection example.



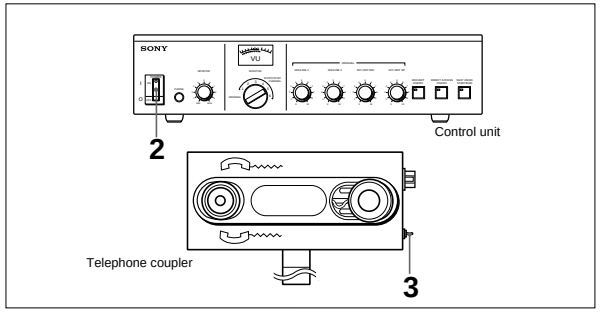
a) For details of connecting cables, see "How to connect cables" shown below.
b) You can extend the distance between units up to 60 meters by using the RK-1710/1713 connecting cable between the RK-1700/1705 connecting cable and the interpreter's unit. Note, however, that the maximum length must not exceed 60 meters (196.8 feet).
c) You can extend the distance between units by using the RK-1710/1713 connecting cable (not supplied).
d) The desk-mounted SX-C750/D750 can also be used in this system. Up to 15 desk-mounted SX-C750 and SX-D750 units can be connected to one line.
The specially designed cables are used to connect these units to the system.
For details, contact your Sony dealer.

How to connect cables of SX-C700A/D700A

The figure below shows how to connect and disconnect the 20-pin multi-connectors of the chairman's/delegate's unit, RK-1700/1705 and RK-1710/1713 connecting cables.


When connecting
When disconnecting
When connecting
When disconnecting
White mark
White mark
With the white mark on the 20-pin multi-connector facing up, push the connector home until it clicks.
Grasp the knurled part of the connector and pull it towards you.
Meet the white marks on each connector and push the connectors each other until they click.
Grasp the knurled part of the connector and pull it towards you.

Turning On the Power of the System



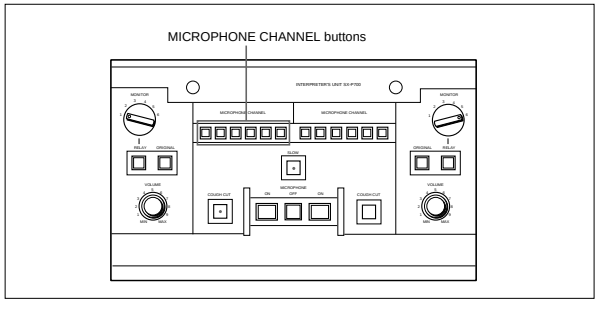
1 Turn on the power of the units connected to the EXT IN-1/2 connectors of the control unit.

2 Set the POWER switch of the control unit to ON.

3 When necessary, set the POWER switch of the telephone coupler to ON.

Assigning Interpreted Languages to Channels

Assign the interpreted languages to the channels (1 to 6) of the interpreter's units by using the MICROPHONE CHANNEL buttons of the interpreter's unit before the start of conference.



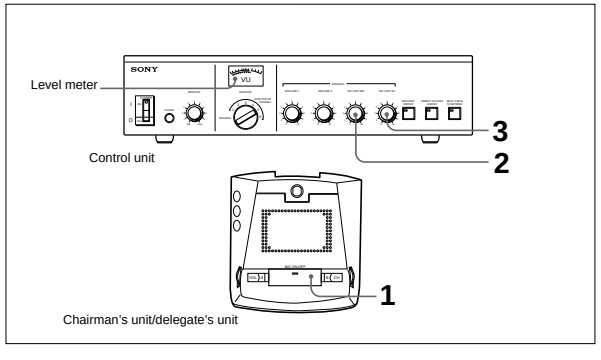
Press the MICROPHONE CHANNEL button corresponding to the channel assigned to the target language of each interpreter.

Preparing the Control Unit

Adjusting the audio level

Adjust the audio signal output to the chairman's/delegate's unit from external equipment connected to EXT IN-1/2 before the conference.

Adjusting the output level of the audio signal to the chairman's unit/ delegate's unit



1 Select several chairman's units/delegate's units placed in the hall and set their MIC ON/OFF buttons to turn on their indicators.

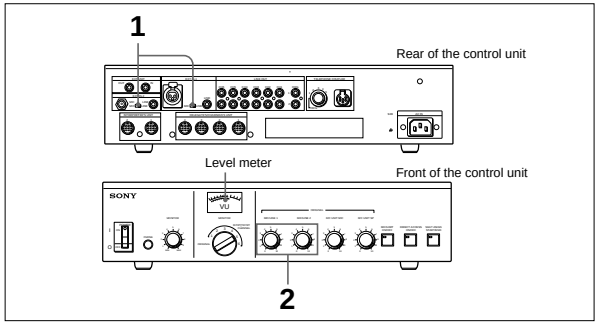
2 Adjust the speaker volume on the chairman's units/delegate's units so that the level meter indicates around 0 VU using the D/C UNIT MIC volume control on the control unit, while an assistant in the conference hall is speaking into the microphone.

3 If howling occurs, rotate the D/C UNIT SP volume control counterclockwise to reduce the volume until the howling stops.
If howling does not stop even if you rotate the D/C UNIT SP volume control counterclockwise, it is recommended to use the howling suppressor or filter unit (not supplied).

Note

The person speaking into the microphone should bring his/her mouth close to the microphone.

Adjusting the input level of the audio signal from equipment connected to EXT IN-1/2 connectors



1
- To adjust the output of the conference microphone, set the MIC/LINE switch of the EXT IN connector, to which the conference microphone to be adjusted is connected, to MIC.
- To adjust the output of external equipment, set the MIC/LINE switch of the EXT IN connector, to which the external equipment to be adjusted is connected, to LINE.

2 Adjust either MIC/LINE 1 or MIC/LINE 2, corresponding to the equipment to be adjusted, so that the level meter pointer indicates about 0 VU.

Note

In this case, do not rotate the D/C UNIT SP control and D/C UNIT MIC control because they have already been adjusted as described in "Adjusting the output level of the audio signal to the chairman's unit/delegate's unit" (previous page).

To select the microphone mode of the chairman's unit/delegate's units
Select the microphone mode (whether the number of speakers is limited) according to the conference type.
To limit the number of speakers to five: Press the MIC LIMIT ON/OFF button such that the button indicator lights.

Note

When the power of the control unit is turned off, the MIC LIMIT ON/OFF button is automatically reset to OFF even if it has been set to ON.
To set the mode to limit the number of speakers to five after the power of the control unit is turned on again, press the MIC LIMIT ON/OFF button such that the button indicator lights.

To allow all speakers to participate freely: Press the MIC LIMIT ON/OFF button such that the button indicator goes out.

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Operation During a Conference

Operations Performed by the Chairman and Delegates

Operations common to both the chairman and delegates

The chairman and delegates can both talk and listen by using their individual unit. The operations are the same.

To speak

Press the MIC ON/OFF button of the unit.
The button indicator and the microphone indicator light. The microphone is enabled.

When the MIC ON/OFF button indicator and microphone indicator blink (delegate's unit)

The microphone mode is set such that only five person can speak at any one time. Currently, the microphones of five units are already turned on. In this case, the indicators blink for about 3 seconds, then go out.

Note

When a delegate's microphone is enabled, the volume level of his or her earphone is automatically reduced. When a delegate is listening through the speaker, the speaker is turned off and the volume levels of the speakers of the units on both sides of the unit are also automatically reduced while the microphone is enabled.

Upon finishing speaking

Upon finishing speaking, press the MIC ON/OFF button again.
The MIC ON/OFF button indicator and the microphone indicator go out and the microphone is disabled.

To listen to the interpreted language

The target languages can be monitored through the earphone. Connecting an earphone to the earphone jack mutes the speaker of the unit.
Set the CH selector to the channel corresponding to the desired target language.
The selected target language can be heard through the earphone.

To listen to the original signal

Set the CH selector to ORIGINAL. The original signal is output to the earphone. Alternatively, disconnect the earphone. The original signal is output to the speaker.

Note

The speaker volume is controlled from the control unit. It cannot be adjusted from each chairman's unit/delegate's unit.

Chairman's operations

The chairman can interrupt a delegate and take control of the conference at any time.

To take control of the conference

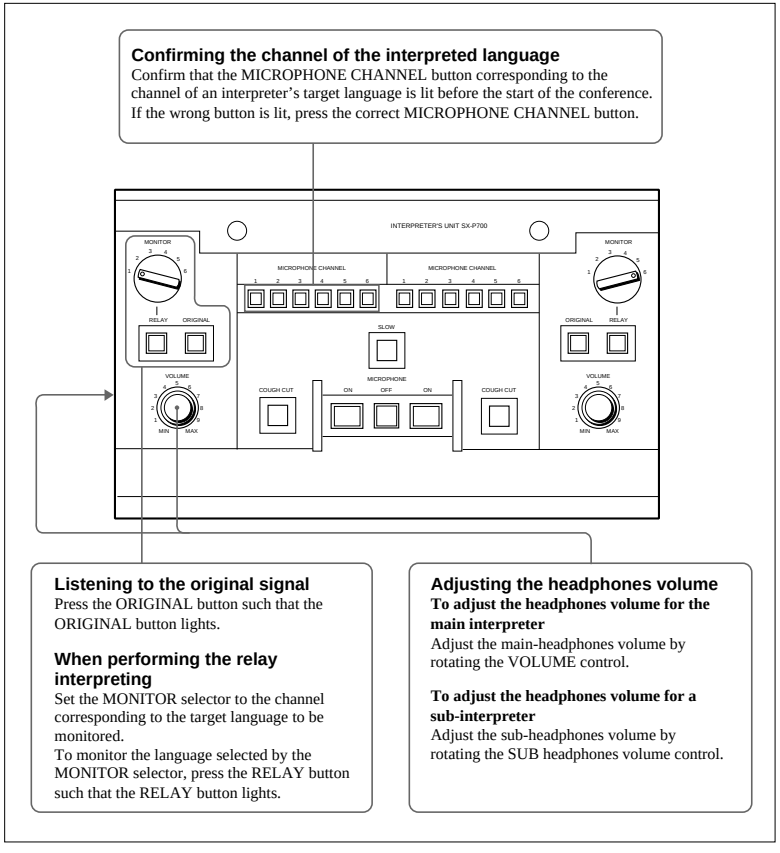
Press and hold down the PRIORITY button. While the PRIORITY button is held down, the microphone of the chairman's unit is enabled. Also, the microphones of the delegates' units are disabled.

When the PRIORITY button blinks

The PRIORITY button blinks to indicate that the interpreter has pressed his or her SLOW button to request the speaker to speak slowly. The chairman then presses and holds down the PRIORITY button to instruct the speaker to speak slowly.

Interpreter's Operations

An interpreter uses an SX-P700 interpreter's unit. The interpreter's unit is designed to be used simultaneously by two interpreters.

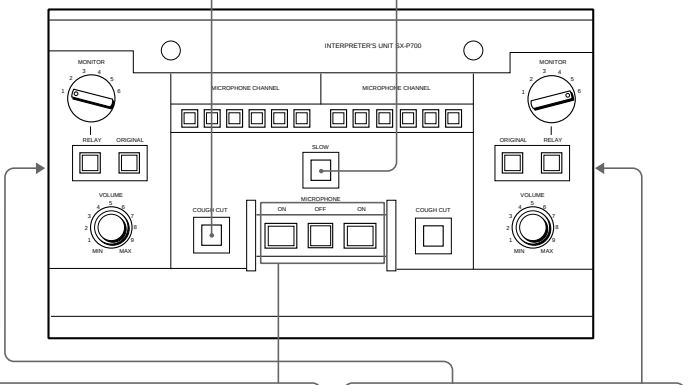

Confirming the channel of the interpreted language
Confirm that the MICROPHONE CHANNEL button corresponding to the channel of an interpreter's target language is lit before the start of the conference. If the wrong button is lit, press the correct MICROPHONE CHANNEL button.
INTERPRETER'S UNIT SX-P700
MONITOR
MICROPHONE CHANNEL
RELAY
ORIGINAL
SLOW
VOLUME
COUGH CUT
MICROPHONE
ON
OFF
Listening to the original signal
Press the ORIGINAL button such that the ORIGINAL button lights.
When performing the relay interpreting
Set the MONITOR selector to the channel corresponding to the target language to be monitored.
To monitor the language selected by the MONITOR selector, press the RELAY button such that the RELAY button lights.
Adjusting the headphones volume
To adjust the headphones volume for the main interpreter
Adjust the main-headphones volume by rotating the VOLUME control.
To adjust the headphones volume for a sub-interpreter
Adjust the sub-headphones volume by rotating the SUB headphones volume control.

Operation During a Conference

MICROPHONE OFF button and the SLOW button are common to left and right blocks of the interpreter's unit. Either of the two interpreters can use these buttons.

Temporarily turning off the microphone (cough cut)
Press the COUGH CUT button. While this buttons is held down, the interpreter's microphone is disabled. Use this button to mask a cough or sneeze, to talk privately, and so on.

When the speaker speaks too quickly to interpret
Press the SLOW button. While the SLOW button is held down, it lights. The chairman is made aware of the interpreter's request by the PRIORITY button blinking.



Interpreting

To enable the microphone
Press the MICROPHONE ON button such that the MICROPHONE ON button and microphone indicator light. When two interpreters interpret, the microphone which is currently enabled will be disabled when the other interpreter presses his or her MICROPHONE ON button.

To turn off the microphone
Press the MICROPHONE OFF button such that the MICROPHONE ON button and microphone indicator go out.
While the microphone is on, the MICROPHONE ON button and microphone indicator are lit.

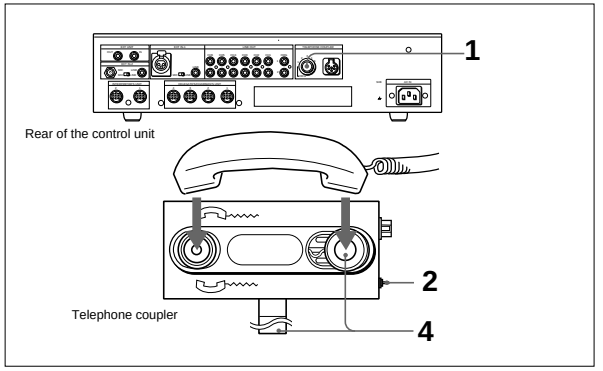
Note
The two interpreters cannot press the right and left MICROPHONE ON buttons at the same time.

Adjusting the microphone level
Set the MIC IN LEVEL switch on the side panel as follows.
NORM: Usually set the switch to this position.
LOW: Set the switch to this position when a microphone having a low output level is being used.
When the interpreter's voice is weak and low, set the switch to LOW, regardless of the microphone output level.

Note
Only the level of the interpreter's microphone can be adjusted with this switch.

Taking Part in a Conference via the Telephone

A person can take part in a conference from a remote location by using the SX-T100 Telephone Coupler .



1 Rotate the TELEPHONE COUPLER channel selector on the control unit to the channel corresponding to the other party's language.

2 Set the POWER ON/OFF switch of the telephone coupler to ON.

3 Set up a telephone connection with the party who will take part in the conference.

4 Place the handset on the telephone coupler after the other party answers the phone. The handset catch part is movable. Adjust the coupler to the handset size and secure the handset with the handset-securing tape.
The called person can now take part in the conference. The person's speech is fed to the conference hall as the original signal. The interpreted language selected by the TELEPHONE COUPLER channel selector is sent to the other party via the telephone line.

Notes
- Orient the handset correctly.
- If the handset is not adjusted to the coupler, the satisfactory communication may not be possible.

Troubleshooting Guide

Should a problem arise in your system, check the system while referring to the instructions in the table below. If the system continues to malfunction after applying the following checks and remedies, contact your nearest Sony dealer. The system indicates the problem by lighting the microphone indicator and MIC ON/OFF button of chairman's/delegate's units.

Lighting of the microphone indicator and MIC ON/OFF button of the chairman's unit/ delegate's unit	Possible cause	Remedies
The indicator and button blink for a few seconds when the POWER switch of the control unit is set to ON.	The chairman's unit/ delegate's units for a simultaneous interpretation conference system, SX-C700A/ D700A/C750/D750, and those for a conference system, SX-C100A/ D100A/C150/D150, have been connected.	To configure the simultaneous conference system, use only SX-C700A/D700A/C750/D750 units. The SX-C100A/D100A/C150/D150 can be used. However, the simultaneous interpretation cannot be heard.
The indicator and button of the chairman's/ delegate's units continue to blink, after the power switch of the control unit is set to ON.	The units whose indicator and button are blinking cannot be controlled by the control unit and cannot be used in this system.	• When the indicator and button of units subsequent to the 16th unit of the units connected to one DELEGATE'S/ CHAIRMAN'S connector of the control unit blink: – More than 16 units cannot be connected to one DELEGATE'S/CHAIRMAN'S connector in series. Disconnect the 16th unit and subsequent units. • Even though the number of connected units is less than 16, the indicators of some of the connected units blink: – The first unit whose indicator and button are blinking may be defective, or the connecting cable may be broken. Disconnect the first unit of those whose indicator and button are blinking. When the indicator and button of the subsequent units stop blinking and go out, it indicates that the disconnected unit was defective. Remove it from the system or replace it with a functioning unit. When the indicator and button continue to blink even after removing the first unit, the connecting cable is probably broken. Replace the connecting cable linking the first unit whose indicator and button are blinking and the unit immediately prior to that unit. • Even though the number of connected units is less than 16, the indicator and button of some of the connected units blink: – The unit whose indicator and button blink is defective. Disconnect it from the system or replace it with a functioning unit.
After the unit has been operated for a while after the power is turned on, the unit's indicator and button start blinking and do not go out, even after a few seconds.	A communication error has occurred.	Briefly turn the power off, then back on again. If the unit subsequently operates normally, communication is resumed. If this problem occurs frequently, contact your nearest Sony dealer. If the indicator and button continue to blink just after the power is turned on again, a problem described above may have occurred. Proceed as described above.

(Continued)

Lighting of the microphone indicator and MIC ON/OFF button of the chairman's unit/ delegate's unit	Possible cause	Remedies
The channel of the language to be monitored cannot be selected by the CH selector.	The earphone may be disconnected.	Insert the earphone plug into the earphone jack surely.
The volume of the earphone cannot be adjusted by using the VOL control.	The earphone may be disconnected.	Insert the earphone plug into the earphone jack surely.
The indicator and button blink and the microphone is disabled even if the MIC ON/OFF button is pressed.	• The mode is that where the number of speakers is limited. • The PRIORITY button is held down by the chairman.	• Wait until the speaker finishes speaking. Press the MIC ON/OFF button again. • Wait until the chairman releases the PRIORITY button.

Specifications

Design and specifications are subject to change without notice.

SX-M700 Control Unit

Input/output
DELEGATE'S /CHAIRMAN'S UNIT (20-pin multi-connector) ×4
INTERPRETER'S UNIT (20-pin multi-connector) ×2
TELEPHONE COUPLER (6-pin multi connector) ×1

Input
EXT IN-1/EXT IN-2
MIC (XLR 3-pin connector) ×1
Balanced type, input level 0.77 mV (–60dBs[a]), for microphone having low impedance
a) 0 dBs = 0.775 V
MIC (phone jack) ×1
Unbalanced type, input level 0.77 mV (–60dBs), for microphone having low impedance
LINE (phone jack) ×2
Balanced type, input level 250 mV (–10dBs), input impedance 10 kilohms
EXT UNIT IN (phone jack) ×1
Input level 1.23 V (+4 dB), input impedance 10 kilohms
AC IN (3-pin) ×1
for AC power input

Output
LINE OUT ORG/CH1 to CH6 (phono jack) ×7 for each line
Output level 250 mV (–10dBs), load impedance 10 kilohms
PHONES (stereo phone jack) ×1
EXT UNIT OUT (phono jack) ×1
Output level 1.23 V (+4 dB), load impedance 10 kilohms

Power requirements
USA model:120 V, 60Hz
European model: 230 V, 50/60Hz

Power consumption
USA model: 1.2A
European model: 100W

Dimensions
424 × 98 × 388.6 mm (w/h/d)
(16 3/4 × 3 7/8 × 15 3/8 inches)

Mass
6.2 kg (13 lb 10 oz)

Accessories supplied
AC power cord (1)
Operating instructions (1)

SX-C700A/C750 Chairman's Unit
SX-D700A/D750 Delegate's Unit

Input/Output
Voting connector (6-pin) ×1

Input
Input connector (for SX-C750/D750 only) (D-sub 15-pin) ×1

Output
Earphone output (minijack) ×2
REC OUT (minijack)×1
Output level 250 mV (–10dBs), load impedance 47 kilohms
Microphone line
Output level 250 mV (–10dBs)

Power requirements
24 V DC

Power consumption
45 mA

Dimensions
SX-C700A/D700A :
134 × 401 × 152 mm (w/h/d)
(6 3/4 × 15 7/8 × 6 inches)
SX-C750/D750
245 × 372.5[b] × 100 mm
(w/h/d) (9 3/4 × 14 3/4 × 4 inches)
b) This does not include the part under the desk.
The part under the desk is 40 mm.

Mass
SX-C700A/D700A: 0.7 kg (1 lb 9 oz)
SX-C750/D750: 0.65 kg (1 lb 7 oz)

SX-P700 Interpreter's Unit

Input/output
CONTROL UNIT/INTERPRETER'S UNIT (20-pin multi connector) ×2

Input
MIC IN (XLR 3-pin) ×2
Balanced and unbalanced type, input level 0.77/0.24 mV (–60dBs/–70dBs) selectable

Output
LINE OUT (phono jack) ×1
Output level 250 mV (–10dBs), output for speaker
MAIN/SUB (stereo phone jack) ×4
–26 dBs/8 ohms with the maximum output level,
–16dBs with the maximum volume setting

Power requirements
24 V DC

Power consumption
40 mA

Dimensions
346.5 x 78.3 x 207.5 mm (w/h/d)
(13 3/4 × 3 1/8 × 8 1/4 inches)

Mass
1.5 kg (3 lb 4 oz)

SX-T100 Telephone Coupler

Input/output
CONTROL UNIT (6-pin multi connector)×1
250 mV (–10 dBs)

Power requirements
24 V DC

Power consumption
18 mA

Dimensions
90 × 74.5 × 213 mm (w/h/d)
(3 5/8 × 3 × 8 1/2 inches)

Mass
0.6 kg (1 lb 5 oz)

Accessory supplied
Connecting cord (1)

Sony Corporation Printed in Japan

SONY

3-759-749-**13** (1)

Conference System

Model:

SX-M100 Control Unit
SX-C100A/SX-C150 Chairman's Unit
SX-D100A/SX-D150 Delegate's Unit
SX-T100 Telephone Coupler

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

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Owner's Record

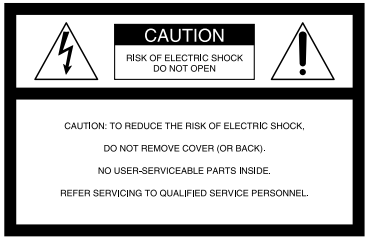
The model and serial numbers are located on the rear of the SX-M100 and on the bottom of the SX-C100A/D100A/T100. Record the serial numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding these products.

Model No. SX-M100 Serial No._____
Model No. SX-C100A/C150 Serial No._____
Model No. SX-D100A/D150 Serial No._____
Model No. SX-T100 Serial No._____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

For the customers in the U.S.A.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For the customers in Canada
This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Pour les utilisateurs au Canada
Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

NOTICE FOR THE CUSTOMERS IN THE UNITED KINGDOM

WARNING
THIS APPARATUS MUST BE EARTHED

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow: Earth
Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Für Kunden in Deutschland

Dieses Produkt kann im kommerziellen und in begrenztem Maße auch im Industriellen Bereich eingesetzt werden. Dies ist eine Einrichtung, welche die Funk-Entstörung nach Klasse B besitzt.

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Outline

Features

The SX-M100 conference system is a flexible discussion system that can be configured with the versatile units introduced below.
The standard system supports a conference of up to 60 delegates. Connecting the SX-E120 Expansion Unit (not supplied) allows the system to support up to 120 delegates. The SX-T100 Telephone Coupler (not supplied) allows the use of a telephone line during a conference. By using the telephone, a person not actually in the conference hall can also take part in the conference.

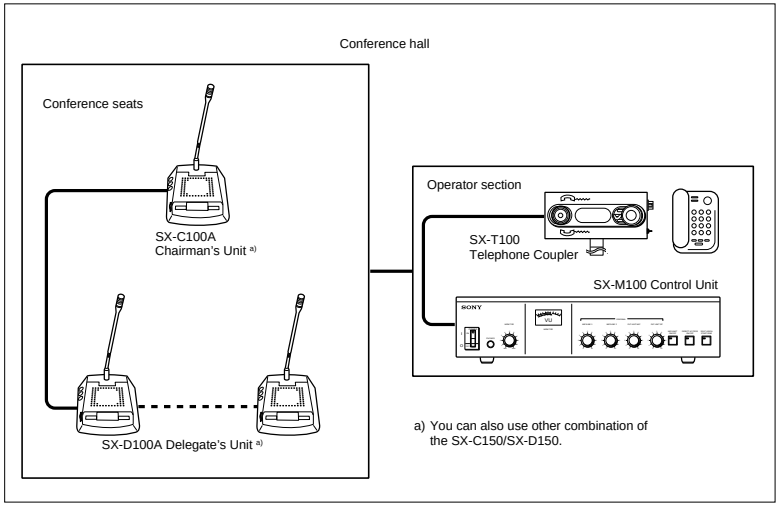
The standard system consists of the following units.
- SX-M100 Control Unit
  This unit controls the conference system.
  The control unit can be mounted in a 19-inch rack.
- Chairman's Unit/Delegate's Unit
  – SX-C100A/SX-D100A Chairman's Unit/Delegate's Unit: Desktop type. You can move these units freely in the conference room.
  – SX-C150/SX-D150 Chairman's Unit/Delegate's Unit: Desk-mounted type. These units are fixed to the desks.
  These units feature both a microphone and speaker.
  Use the above combination of the chairman's unit and delegate's unit.
- SX-T100 Telephone Coupler
  This coupler is used to connect the control unit to a telephone line. Using this coupler allows a person to take part in a conference from a remote location, even from overseas.

In addition to the units described above, the following optional units are available.
SXA-120 Expansion Board
The board is designed to allow the expansion of the system's functions. Installing this board in the control unit allows the following function expansion units to be connected.
- SX-E120 Expansion Unit
- SX-8300/SX-S100 Microphone Control Panel
  Used to enable or disable delegates' microphones.
  When multiple SX-8300 microphone control panels are used, the power interface unit is required.
  When the SX-S100 microphone control panels are used, they are connected using only the connecting cables.
  For detailed information on the power interface unit, contact your Sony dealer.
- Personal computer

For details of the SXA-120 Expansion Board, refer to the manual supplied with the expansion board.

System Configuration

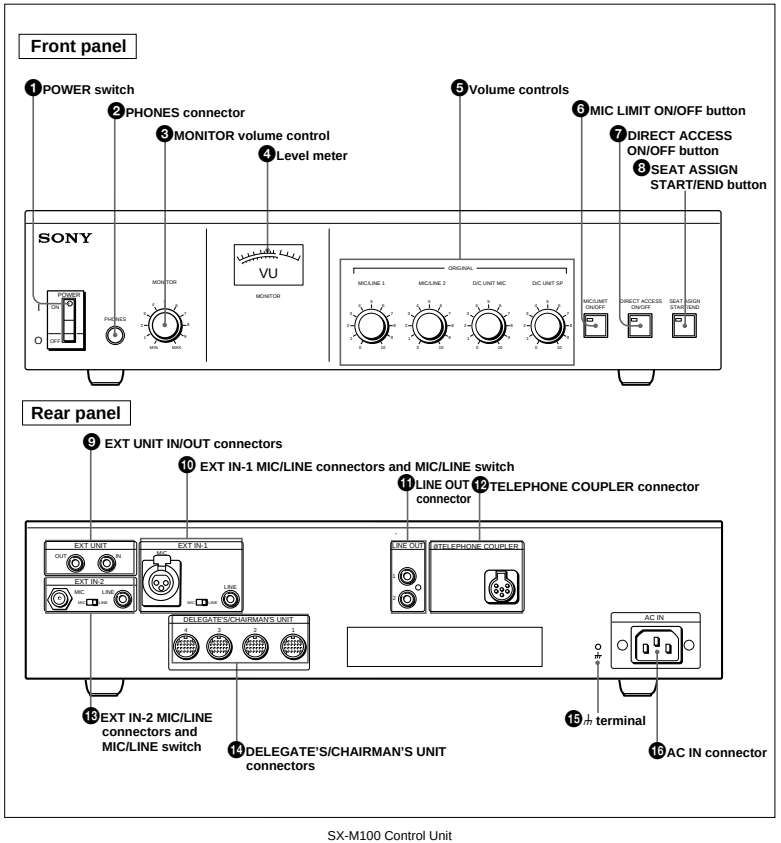
The figure below shows an example of the conference system.



System configuration

Location and Function of Parts and Controls

SX-M100 Control Unit



SX-M100 Control Unit

❶ POWER switch

Setting the switch to ON (**I**) turns the power on. The level meter will light.
Setting the switch to OFF (**O**) turns the power off.

❷ PHONES connector (stereo phone jack)

Connect 8-ohm stereo or monaural headphones. Note that the output is monaural even when stereo headphones are connected.

❸ MONITOR volume control

Adjusts the volume of the headphones.

❹ Level meter

Indicates the level of the audio signal output to the LINE OUT ⓫, TELEPHONE COUPLER ⓬ and DELEGATE'S/CHAIRMAN'S UNIT ⓮ connectors.

❺ Volume controls

Used to adjust the level of the following sound.

D/C UNIT SP volume control: Adjusts the level of the audio signal output to the chairman's unit/delegate's unit.

D/C UNIT MIC volume control: Adjusts the input level of the audio signal sent from the microphones on the chairman's units and delegate's units.

MIC/LINE 1 volume control: Adjusts the input level of the signal input through the EXT IN-1 MIC or LINE connector.

MIC/LINE 2 volume control: Adjusts the input level of the signal input through the EXT IN-2 MIC or LINE connector.

When the MIC/LINE switch of the EXT IN-1 or EXT IN-2 connector is set to LINE, the input level of the signal input through the LINE connector can be adjusted.
When the MIC/LINE switch of the EXT IN-1 or EXT IN-2 connector is set to MIC, the input level of the signal input through the MIC connector can be adjusted.

❻ MIC (microphone mode) LIMIT ON/OFF button

Selects the microphone mode for the delegate's units.
The microphone of the chairman's unit remains live regardless of the setting of this button.

MIC (microphone) LIMIT ON: Press this button to set the microphone to the speaker's number limitation mode. The button indicator lights. Setting this mode allows the microphones of up to five delegate's units to be live at the same time.

MIC (microphone) LIMIT OFF: Press the button again to set the microphone to the speaker's number unlimitation mode. The button indicator goes out. Setting this mode allows the microphones of all delegate's units to be live at the same time.

❼ DIRECT ACCESS ON/OFF button

This button is effective only when the SXA-120 Expansion Board (not supplied) is installed and the SX-8300/SX-S100 Microphone Control Panel is connected to the control unit.
While the SX-8300 is not connected, this button indicator lights, even though it is not operative.
The button indicator does not go out even if you press this button.

❽ SEAT ASSIGN START/END button

This button is effective only when the SXA-120 Expansion Board (not supplied) is installed and the SX-8300/SX-S100 Microphone Control Panel is connected to the control unit for performing seat assignment.
While the SX-8300 Microphone Control Panel is not connected, the button indicator does not light even if you press the button.

For details of the functions and how to use the DIRECT ACCESS ON/OFF and SEAT ASSIGN START/END buttons, refer to the manuals supplied with the SXA-120 Expansion Board.

❾ EXT UNIT IN/OUT (external unit input/output) connectors (phone jack)

Connect to the howling suppressor unit or filter unit (not supplied).

Notes

- Be sure to connect both the IN and OUT connectors. Connecting only one of the two connectors results in incorrect operation of the unit.
- When it is not necessary to use the howling suppressor or filter unit, disconnect cables from both connectors.

⑩ EXT IN-1 MIC/LINE (external 1 microphone/line signal input) connectors and MIC/LINE switch

EXT IN-1 MIC/LINE connectors

Accept an external audio signal.

MIC connector (XLR type): Connect a rostrum or conference hall microphone.

Note

When you use a connecting cable with an XLR connector, pin No.1 and the case (metal part) of which are connected, noise may be picked up.

LINE connector (phono jack): Connect to external equipment such as audio equipment.

MIC/LINE switch

Selects the signal input to the EXT IN-1 connector.

MIC: Set the switch to this position when a microphone is connected.

LINE: Set the switch to this position when an item of audio equipment is connected.

⑪ LINE OUT (line output) connectors (phono jacks)

Supply the signal from the chairman's unit/delegate's unit, that from the rostrum or conference hall microphone. There are two connectors. Use these connectors when recording the output to a tape recorder or when sending the line output to the monitor system transmitter by means of an infrared or induction-based system.

⑫ TELEPHONE COUPLER connector (6-pin multi-connector)

Connect to the SX-T100 telephone coupler (not supplied).

⑬ EXT IN-2 MIC/LINE (external 2 microphone/line signal input) connectors and MIC/LINE (microphone/line signal select) switch

EXT IN-2 MIC/LINE connectors

Input an external audio signal.

MIC connector (phone jack): Connect a rostrum or conference hall microphone.

LINE connector (phono jack): Connect to external equipment such as audio equipment.

MIC/LINE switch

Selects the signal input to the EXT IN-2 connector.

MIC: Set the switch to this position when a microphone is connected.

LINE: Set the switch to this position when an item of audio equipment is connected.

⑭ DELEGATE'S/CHAIRMAN'S UNIT connectors (20-pin multi-connectors)

Connect to the SX-C100A/SX-C150/SX-D100A/SX-D150 Chairman's Unit/Delegate's Unit. The same signal is output from four connectors. Up to 15 SX-C100A/D100A units can be connected to each of the four connectors. Thus, up to 60 SX-C100A/SX-C150/SX-D100A/SX-D150 units can be connected.

⑮ ⏚ (signal ground) terminal

Ground if necessary.

⑯ AC IN (AC power input) connector

Connect the unit to an AC power source by means of the supplied AC power cord.

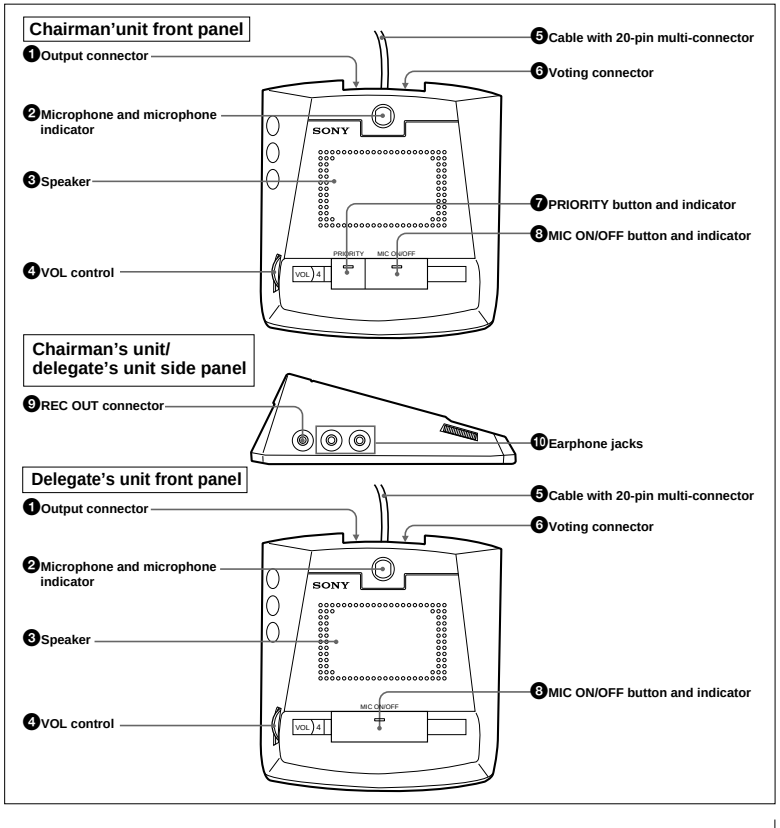
SX-C100A/C150/SX-D100A/D150 Chairman's Unit/Delegate's Unit

The following two combinations of the chairman's unit and delegate's unit are available for use with the system.

- SX-C100A/SX-D100A Chairman's Unit/Delegate's Unit
- SX-C150/SX-D150 Chairman's Unit/Delegate's Unit

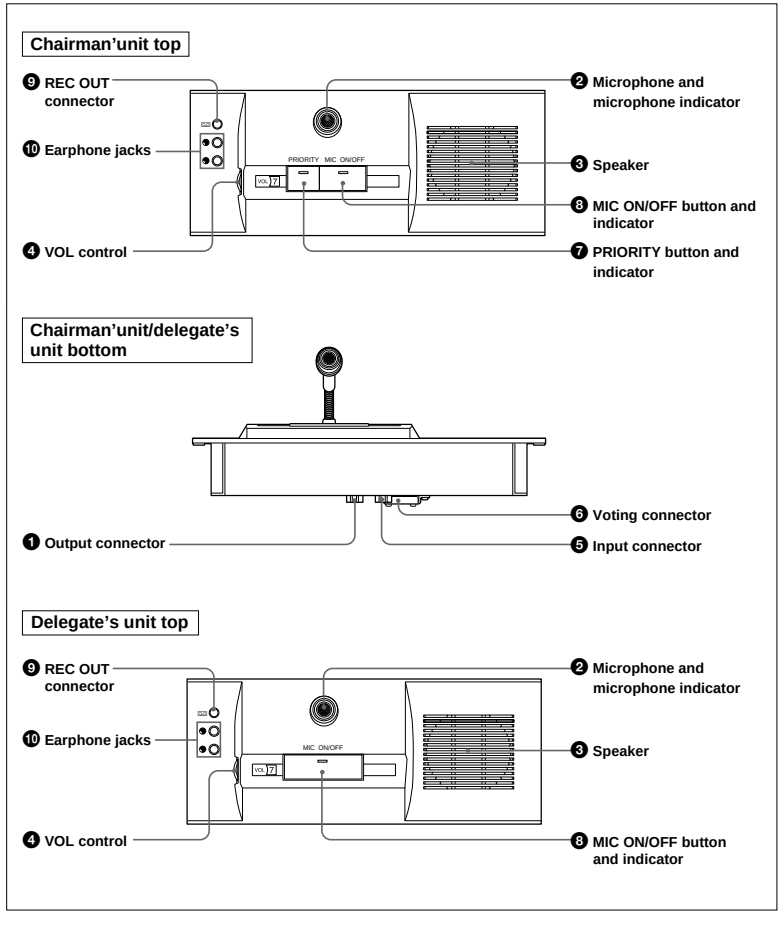
This section explains the location and function of parts and controls of the chairman's unit and delegate's unit. The explanation applies to both combinations. Read the explanation corresponding to the numbered parts and controls in the illustration.

SX-C100A/SX-D100A Chairman's Unit/Delegate's Unit



Location and Function of Parts and Controls

SX-C150/SX-D150 Chairman's Unit/Delegate's Unit



The explanations given here apply to both units, unless noted otherwise, with the exception of PRIORITY button ❼.

❶ Output connector

For SX-C100A/SX-D100A (20-pin multi-connector)
Connect the cable with a 20-pin multi-connector of the chairman's unit/delegate's unit placed opposite the SX-M100 Control Unit and the next chairman's unit/delegate's unit.
For SX-C150/SX-D150 (D-sub 15-pin)
Connect to the input connector on the next chairman's unit and delegate's unit.

❷ Microphone and microphone indicator

The microphone can be rotated freely. The microphone operation depends on the setting of the MIC ON/OFF button ❽.
For details, see the explanation of the MIC ON/OFF button ❽.

❸ Speaker

The sound is heard through this speaker when the microphone is not being used and when an earphone is not plugged into the earphone jack. The speaker's volume is adjusted from the SX-M100 Control Unit. To prevent howling, nothing is output from the speaker when the microphone of the chairman's/delegate's unit is enabled. Also at the same time, the speaker volume of the units on either sides of the unit is automatically reduced.

❹ VOL (volume) control

Adjusts the volume of the earphone. Even if the VOLUME control is turned fully counterclockwise, the earphone volume cannot be turned off. (The speaker volume is not affected by this control.)

❺ Cable with 20-pin multi-connector (for the SX-D100A/SX-C100A only)

Connect to the DELEGATE'S/CHAIRMAN'S UNIT connector of the SX-M100 Control Unit, SX-E120 Expansion Board (not supplied) or the output connector of another chairman's unit/delegate's unit.

❺ Input connector (D-sub 15-pin) (for SX-C150/SX-D150 only)

Connect to the DELEGATE'S/CHAIRMAN'S UNIT connector of the SX-M100 Control Unit, SX-E120 Expansion Board (not supplied) or the output connector of another chairman's unit/delegate's unit.

❻ Voting connector

Connect to the SX-CV10/SX-DV10 voting unit (not supplied).
For details, contact your Sony dealer.

❼ PRIORITY button and indicator (for the SX-C100A/SX-C150 only)

Press this button to disconnect the microphones of the delegate's units and enable the use of only the microphone of the chairman's unit.
Holding down this button turns on the microphone of the chairman's unit.

❽ MIC ON/OFF button and indicator

SX-C100A/SX-C150: Pressing this button turns the microphone on. The MIC ON/OFF button indicator and microphone indicator ❷ light. Pressing this button again turns the microphone off. The indicators go out.
SX-D100A/SX-D150: When the MIC LIMIT ON/OFF button on the control unit is set to OFF (the MIC LIMIT ON/OFF button indicator does not light), pressing this button turns the microphone on. The MIC ON/OFF button indicator and microphone indicator ❷ light. In this mode, since the number of speakers is not limited, the microphones of all the delegate's units are enabled.
When the MIC LIMIT ON/OFF button on the control unit is set to ON (the MIC LIMIT ON/OFF button indicator is lit), the number of speakers is limited. Thus, when the MIC ON/OFF buttons of more than six delegate's units are pressed at the same time, the indicator of the sixth delegate's unit blinks (for about 3 seconds) to tell the user that the microphone cannot be enabled since the number of units whose MIC ON/OFF button is pressed exceeds six.

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When the MIC ON/OFF button of the delegate's unit is pressed under the condition where the PRIORITY button of the chairman's unit is held down, the MIC ON/OFF button indicator and microphone indicator blink for about 3 seconds to tell the user that the microphone cannot be enabled.

❾ REC OUT (recording output) connector (minijack)

Connect to the input connector of the tape recorder to record the monitor sound.

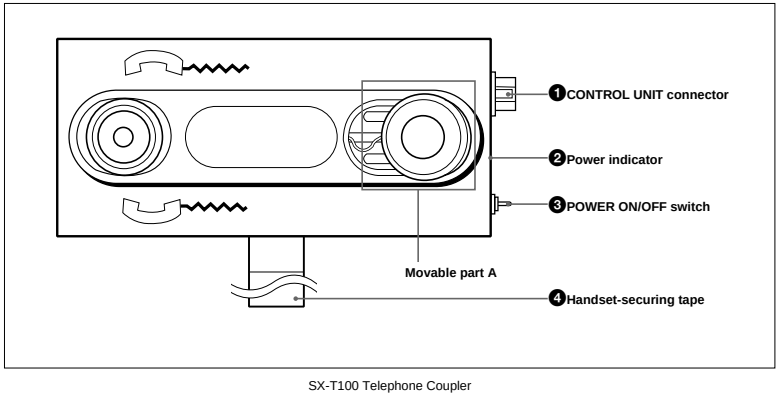
Note

Use a connecting cable with a terminating resistor (RK-G64 and so on) to connect the unit to the microphone input connector of a tape recorder. Use a connecting cable without a terminating register (RK-G69 and so on) to connect the unit to the line input connector of a tape recorder.

❿ Earphone jacks (minijack)

Connect an earphone to monitor the signal from the interpreter's unit or the original signal.

SX-T100 Telephone Coupler



SX-T100 Telephone Coupler

❶ CONTROL UNIT connector (6-pin multi-connector)

Connect to the TELEPHONE COUPLER connector of the SX-M100 Control Unit, using the connecting cord supplied with the SX-T100.

❷ Power indicator

This indicator lights when the telephone coupler power is turned on.

❸ POWER ON/OFF switch

Turns the telephone coupler power on or off .

Note

When the POWER ON/OFF switch is set to ON, howling or noise may arise because the microphone and the speaker are enabled. When the telephone coupler is not used, set the POWER ON/OFF switch to OFF.

❹ Handset-securing tape

After being connected to other party telephone, place your handset on the telephone coupler and secure it with the handset-securing tape. Adjust the movable part A in the above illustration, to fit the handset being used.

Note

If the handset is not secured firmly, communication may not be satisfactory.

Setting Up the System

Precautions

Safety precautions

Power supply
- Operate the unit only with a power source as specified in “Specifications” section.
- Do not drop or place heavy objects on the power cord. If the power cord is damaged, turn off the power immediately. It is dangerous to use the unit with a damaged power cord.
- Disconnect the power cord from the AC outlet by grasping the plug, not by pulling the cord.

Keep foreign objects out of the cabinet
Dropping flammable or metal objects into the cabinet, or spilling liquids onto the cabinet can lead to accidents.

In case of malfunctions
If you notice any unusual sound, smell or smoke, turn off the power immediately, disconnect the power supply and contact your Sony dealer.

Cleaning

Clean the cabinet and panels by wiping with a soft, dry cloth. For severe stains, moisten the cloth with a small amount of neutral solvent, and finish by wiping with a dry cloth. Do not use alcohol, benzine, thinner or volatile liquids, as these may discolor or damage the cabinet surface.

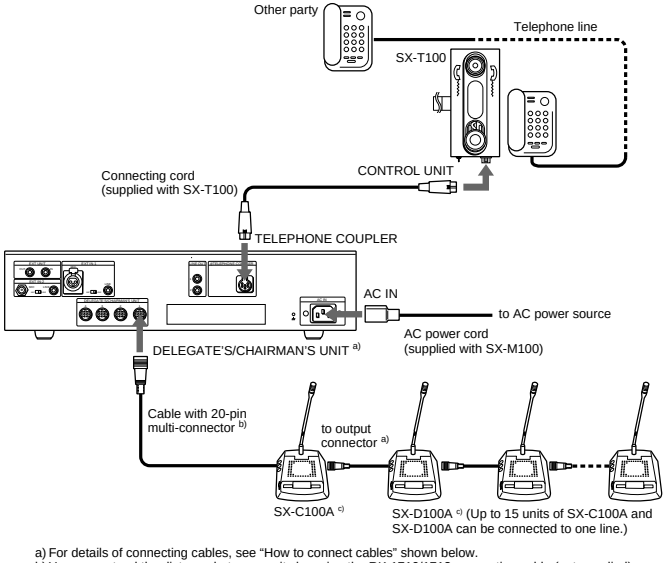
System Connection

This section explains how to connect the system.

Chairman’s unit/delegate’s unit and interpreter’s unit
The SX-M100 Control Unit is provided with four DELEGATE’S/CHAIRMAN’S UNIT connectors. Up to 15 chairman’s/delegate’s units can be connected to each of the DELEGATE’S/CHAIRMAN’S UNIT connectors in serial connection. The distance between the control unit and the last chairman’s/delegate’s unit should not exceed 60 meters (196.8 feet).

Notes
- Be sure to turn off the power of any units before attempting connection or disconnection.
- The desktop type SX-C100A/D100A and the desk-mounted SX-C150/D150 are used with this system.
  It is not recommended to mix both combinations.
- When the SX-C100A/D100A is used, the SX-C700A/C750/D700A/D750 Chairman’s Unit/ Delegate’s Unit, designed for the simultaneous interpretation conference system, can be connected to configure this conference system. However, after the system power is turned on, the microphone indicator and MIC ON/OFF buttons of the chairman’s unit and delegate’s unit continue to blink for about 3 seconds to inform that the SX-C700A/D700A units for simultaneous interpretation conference system have been connected to the conference system.
- If you turn on the system power before connecting the chairman’s unit/delegate’s unit, the microphone indicators and MIC ON/OFF buttons continue to blink and these units cannot be controlled by the control unit. In such a case, turn the power off, then back on again.
- When using the DELEGATE’S/CHAIRMAN’S UNIT connectors of the SX-M100 Control Unit, attach the dust caps removed from the 20-pin multi-connectors on the control unit to the 20-pin multi-connectors on the last unit connected. If the 20-pin multi-connector has no dust cap, keep it away from metal tools, such as screwdrivers to prevent the connector being inadvertently shorted.

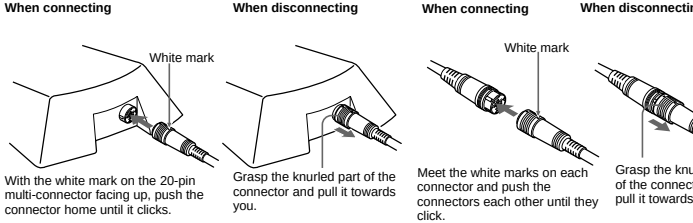
The figure below shows an connection example.



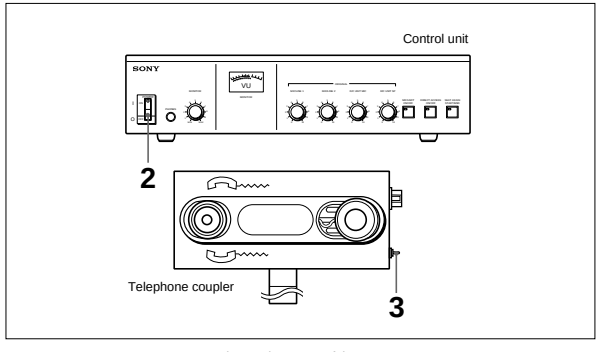
a) For details of connecting cables, see “How to connect cables” shown below.
b) You can extend the distance between units by using the RK-1710/1713 connecting cable (not supplied).
c) The desk-mounted SX-C150/SX-D150 can also be used in this system. Up to 15 desk-mounted SX-C150 and SX-D150 units can be connected to one line.
The specially designed cables are used to connect these units to the system.
For details, contact your Sony dealer.

System connection example

How to connect cables of the SX-C100A/SX-D100A
The figure below shows how to connect and disconnect the 20-pin multi-connectors of the chairman’s/delegate’s unit and RK-1710/1713 connecting cables.


When connecting
When disconnecting
When connecting
When disconnecting
White mark
White mark
With the white mark on the 20-pin multi-connector facing up, push the connector home until it clicks.
Grasp the knurled part of the connector and pull it towards you.
Meet the white marks on each connector and push the connectors each other until they click.
Grasp the knurled part of the connector and pull it towards you.

Turning On the Power of the System



Turning on the power of the system

1 Turn on the power of the units connected to the EXT IN-1/2 connectors of the control unit.

2 Set the POWER switch of the control unit to ON.

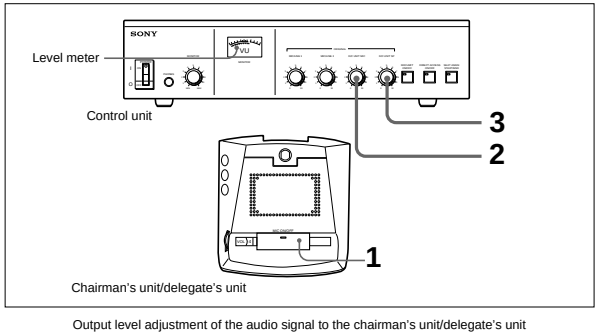
3 When necessary, set the POWER switch of the telephone coupler to ON.

Preparing the Control Unit

Adjusting the audio level

Adjust the audio signal output to the chairman's/delegate's unit and input from the external equipment connected to EXT IN-1/2 before the conference.

Adjusting the output level of the audio signal to the chairman's unit/ delegate's unit



Output level adjustment of the audio signal to the chairman's unit/delegate's unit

1 Select several chairman's units/delegate's units placed in the hall and set their MIC ON/OFF buttons to turn on their indicators.

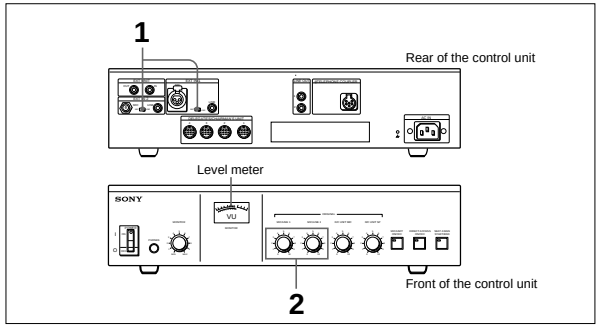
2 Adjust the speaker volume on the chairman's units/delegate's units so that the level meter indicates around 0 VU using the D/C UNIT MIC volume control on the control unit, while an assistant in the conference hall is speaking into the microphone.

3 If howling occurs, rotate the D/C UNIT SP volume control counterclockwise to reduce the volume until the howling stops.
If howling does not stop even if you rotate the D/C UNIT SP volume control counterclockwise, it is recommended to use the howling suppressor or filter unit (not supplied).

Note

The person speaking into the microphone should bring his/her mouth close to the microphone.

Adjusting the input level of the audio signal from equipment connected to EXT IN-1/2 connectors



Input level adjustment of the audio signal from external equipment

1 • To adjust the output of the conference microphone, set the MIC/LINE switch of the EXT IN connector, to which the conference microphone to be adjusted is connected, to MIC.
• To adjust the output of external equipment, set the MIC/LINE switch of the EXT IN connector, to which the external equipment to be adjusted is connected, to LINE.

2 Adjust either MIC/LINE 1 or MIC/LINE 2, corresponding to the equipment to be adjusted, so that the level meter pointer indicates about 0 VU.

Note

In this case, do not rotate the MASTER control because it has already been adjusted as described in "Adjusting the output level of the audio signal to the chairman's unit/delegate's unit" (previous page).

To select the microphone mode of the chairman's unit/delegate's units
Select the microphone mode (whether the number of speakers is limited) according to the conference type.
To limit the number of speakers to five: Press the MIC LIMIT ON/OFF button such that the button indicator lights.

Note

When the power of the control unit is turned off, the MIC LIMIT ON/OFF button is automatically reset to OFF even if it has been set to ON.
To set the mode to limit the number of speakers to five after the power of the control unit is turned on again, press the MIC LIMIT ON/OFF button such that the button indicator lights.

To allow all speakers to participate freely: Press the MIC LIMIT ON/OFF button such that the button indicator goes out.

Operation During a Conference

Operations Performed by the Chairman and Delegates

Operations common to both the chairman and delegates

The chairman and delegates can both talk and listen by using their individual unit. The operations are the same.

To speak
Press the MIC ON/OFF button of the unit.
The button indicator and the microphone indicator light. The microphone is enabled.

When the MIC ON/OFF button indicator and microphone indicator blink (delegate's unit)
The microphone mode is set such that only five person can speak at any one time. Currently, the microphones of five units are already turned on. In this case, the indicators blink for about 3 seconds, then go out.
The MIC ON/OFF button indicator and microphone indicator blink for about 3 seconds, then go out, when the PRIORITY button of the chairman'unit is held down.

Note

When a delegate's microphone is enabled, the volume level of his or her earphone is automatically reduced. When a delegate is listening through the speaker, the speaker is turned off and the volume levels of the speakers of the units on both sides of the unit are also automatically reduced while the microphone is enabled.

Upon finishing speaking
Upon finishing speaking, press the MIC ON/OFF button again.
The MIC ON/OFF button indicator and the microphone indicator go out and the microphone is disabled.

To listen the sound through the earphone
The sound can be monitored through the earphone. Connecting an earphone to the earphone jack mutes the speaker of the unit.
Set the CH selector to the channel corresponding to the desired target language.

Note

The speaker volume is controlled from the control unit. It cannot be adjusted from each chairman's unit/delegate's unit.

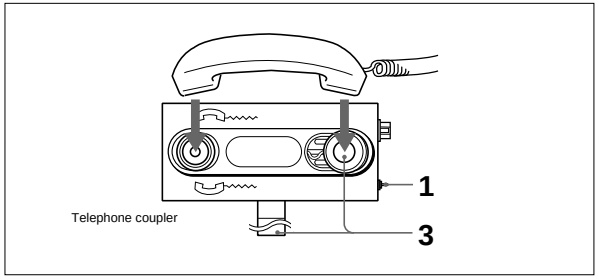
Chairman's operations

The chairman can interrupt a delegate and take control of the conference at any time.

To take control of the conference
Press and hold down the PRIORITY button. While the PRIORITY button is held down, the PRIORITY button and the microphone indicator are lit and the microphone of the chairman's unit is enabled. On the other hand, the microphones of the delegates' units are disabled.

Taking Part in a Conference via a Telephone

A person can take part in a conference from a remote location by using the SX-T100 Telephone Coupler .



Taking part in a conference via the telephone

1 Set the POWER ON/OFF switch of the telephone coupler to ON.

2 Set up a telephone connection with the party who will take part in the conference.

3 Place the handset on the telephone coupler after the other party answers the phone. The handset catch part is movable. Adjust the coupler to the handset size and secure the handset with the handset-securing tape.
The called person can now take part in the conference.

Notes

- Orient the handset correctly.
- If the handset is not adjusted to the coupler, the satisfactory communication may not be possible.

Troubleshooting Guide

Should a problem arise in your system, check the system while referring to the instructions in the table below. If the system continues to malfunction after applying the following checks and remedies, contact your nearest Sony dealer. The system indicates the problem by lighting the microphone indicator and MIC ON/OFF button of chairman's/delegate's units.

Lighting of the microphone indicator and MIC ON/OFF button of the chairman's unit/ delegate's unit	Possible cause	Remedies
The indicator and button blink for a few seconds when the POWER switch of the control unit is set to ON.	The chairman's unit/ delegate's units for a conference system, SX-C100A/D100A/SX-C150/ D150, and those for a simultaneous interpretation conference system, SX-C700A/ D700A/SX-C750/D750, have been connected.	The SX-C700A/D700A/SX-C750/D750 can be used. However, same sound is output from channel 1 to channel 6.
The indicator and button of the chairman's/ delegate's units continue to blink, after the power switch of the control unit is set to ON.	The units whose indicator and button are blinking cannot be controlled by the control unit and cannot be used in this system.	• When the indicator and button of units subsequent to the 16th unit of the units connected to one DELEGATE'S/ CHAIRMAN'S connector of the control unit blink: – More than 16 units cannot be connected to one DELEGATE'S/CHAIRMAN'S connector in series. Disconnect the 16th unit and subsequent units. • Even though the number of connected units is less than 16, the indicators of some of the connected units blink: – The first unit whose indicator and button are blinking may be defective, or the connecting cable may be broken. Disconnect the first unit of those whose indicator and button are blinking. When the indicator and button of the subsequent units stop blinking and go out, it indicates that the disconnected unit was defective. Remove it from the system or replace it with a functioning unit. When the indicator and button continue to blink even after removing the first unit, the connecting cable is probably broken. Replace the connecting cable linking the first unit whose indicator and button are blinking and the unit immediately prior to that unit. • Even though the number of connected units is less than 16, the indicator and button of some of the connected units blink: – The unit whose indicator and button blink is defective. Disconnect it from the system or replace it with a functioning unit.
After the unit has been operated for a while after the power is turned on, the unit's indicator and button start blinking and do not go out, even after a few seconds.	A communication error has occurred.	Briefly turn the power off, then back on again. If the unit subsequently operates normally, communication is resumed. If this problem occurs frequently, contact your nearest Sony dealer. If the indicator and button continue to blink just after the power is turned on again, a problem described above may have occurred. Proceed as described above.
The volume of the earphone cannot be adjusted by using the VOL control.	The earphone may be disconnected.	Insert the earphone plug into the earphone jack surely.
The indicator and button blink and the microphone is disabled even if the MIC ON/OFF button is pressed.	• The mode is that where the number of speakers is limited. • The PRIORITY button is held down by the chairman.	• Wait until the speaker finishes speaking. Press the MIC ON/OFF button again. • Wait until the chairman releases the PRIORITY button.

Specifications

SX-M100 Control Unit

Input/output connectors
- DELEGATE'S /CHAIRMAN'S UNIT (20-pin multi-connector) ×4
- TELEPHONE COUPLER (6-pin multi connector) ×1

Input
- EXT IN-1/EXT IN-2
- MIC (XLR 3-pin connector) ×1
  Balanced type, input level 0.77 mV (–60dBs), for microphone having low impedance
- MIC (phone jack) ×1
  Unbalanced type, input level 0.77 mV (–60dBs), for microphone having low impedance
- LINE (phono jack) ×2
  Balanced type, input level 250 mV (–10dBs), input impedance 10 kilohms
- AC IN (3-pin) ×1
  for AC power input

Output
- LINE OUT (phono jack) ×2
  Output level 250 mV (–10dBs), load impedance 10 kilohms or more
- PHONES (stereo phone jack) ×1

Power requirements
- USA model:120 V, 60Hz
- European model: 230 V, 50/60Hz

Power consumption
- USA model: 1.06A
- European model: 90W

Dimensions
- 424 × 98 × 378 mm (w/h/d)
  (16 ¾ × 3 ⅞ × 15 inches)

Mass
- 6.2 kg (13 lb 10 oz)

Accessories supplied
- AC power cord (1)
- Operating instructions (1)

SX-C100A/SX-C150 Chairman's Unit
SX-D100A/SX-D150 Delegate's Unit

Output
- Earphone output (minijack) ×2
- REC OUT (minijack)×1
  Output level 250 mV (–10dBs), load impedance 47 kilohms

Power requirements
- 24 V (supplied with the 20-pin multi-connector)

Power consumption
- 45 mA

Dimensions
- SX-C100A/SX-D100A:
  134 × 401 × 152 mm (w/h/d)
  (6 ¾ × 15 ⅞ × 6 inches)
- SX-C150/SX-D150:
  245 × 372.5[a)] × 100 mm (w/h/d)
  (9 ¾ × 14 ¾ × 4 inches)

a) This does not include the part under the desk.
The part under the desk is 40 mm.

Mass
- SX-C100A/SX-D100A:
  0.7 kg (1 lb 9 oz)
- SX-C150/SX-D150:
  0.65 kg (1 lb 7 oz)

SX-T100 Telephone Coupler

Input/output
- CONTROL UNIT (6-pin multi connector) ×1
  250 mV (–10 dBs)

Power consumption
- 18 mA

Dimensions
- 90 × 74.5 × 213 mm (w/h/d)
  (3 ⅝ × 3 × 8 ½ inches)

Mass
- 0.6 kg (1 lb 5 oz)

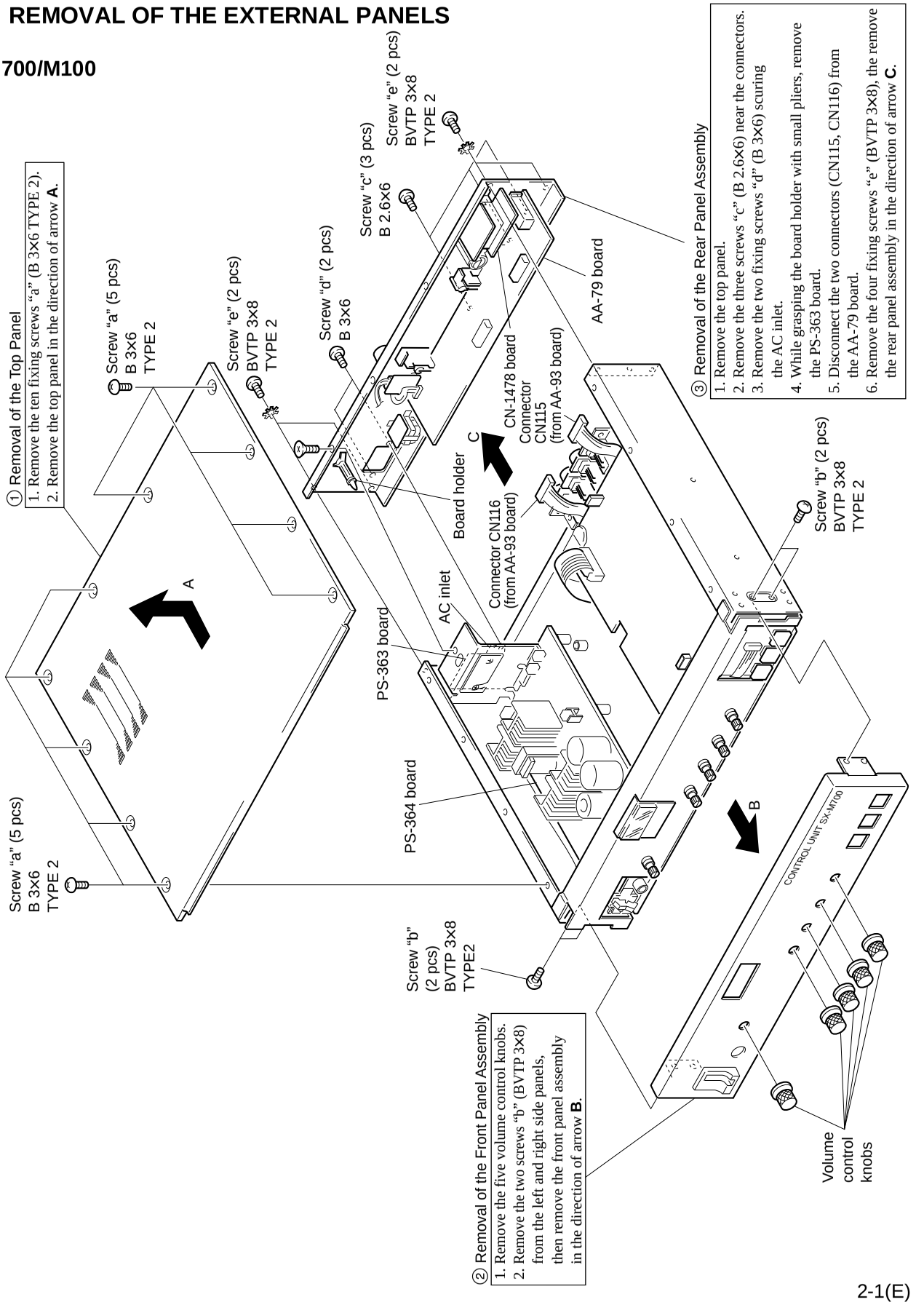
Accessory supplied
- Connecting cord (1)

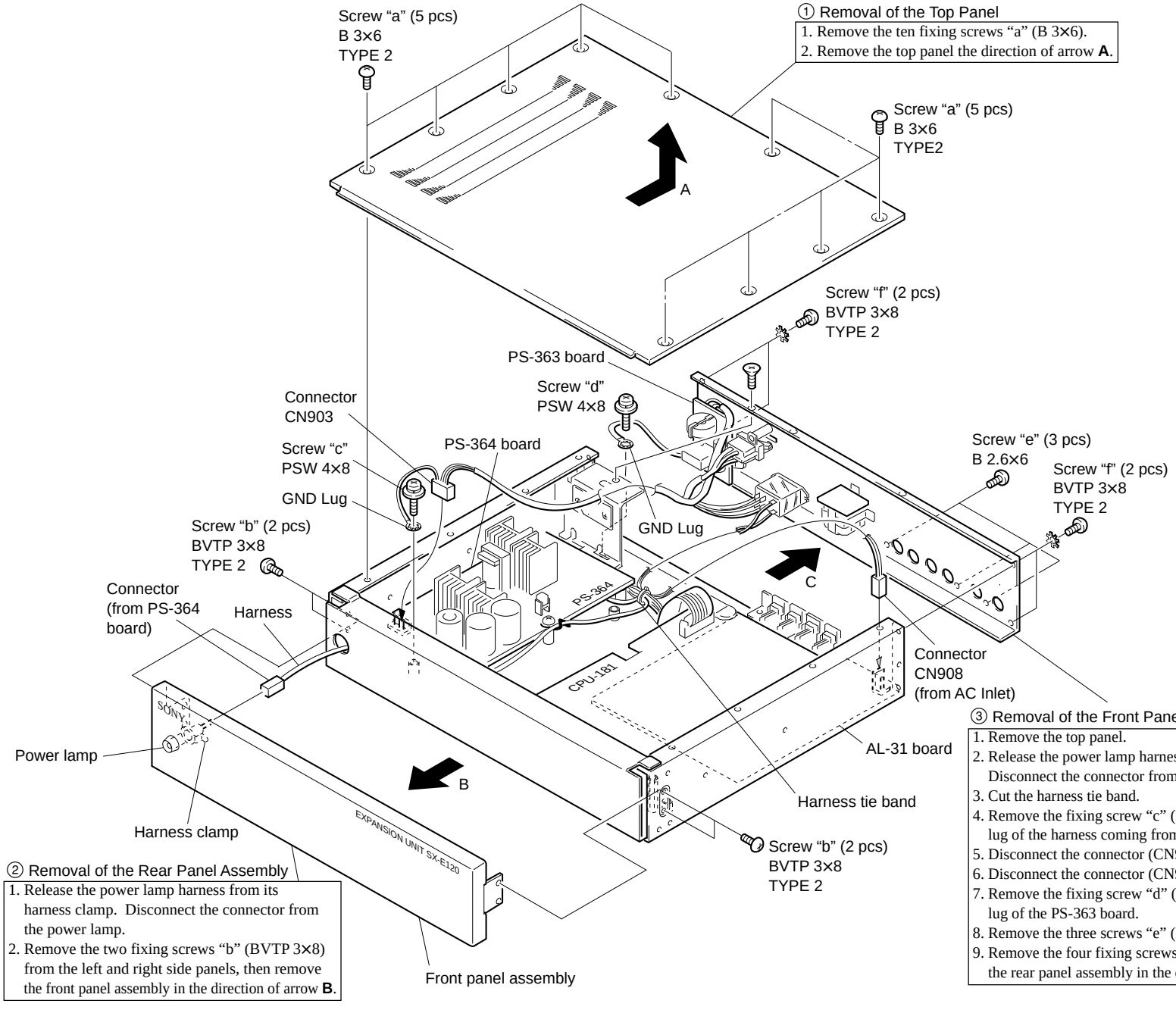
Design and specifications are subject to change without notice.

SECTION 2
SERVICE OVERVIEW

2-1. REMOVAL OF THE EXTERNAL PANELS

SX-M700/M100


① Removal of the Top Panel
1. Remove the ten fixing screws "a" (B 3X6 TYPE 2).
2. Remove the top panel in the direction of arrow A.
Screw "a" (5 pcs) B 3x6 TYPE 2
Screw "e" (2 pcs) BVTP 3x8 TYPE 2
Screw "d" (2 pcs) B 3x6
Screw "c" (3 pcs) B 2.6x6
Screw "e" (2 pcs) BVTP 3x8 TYPE 2
AA-79 board
③ Removal of the Rear Panel Assembly
1. Remove the top panel.
2. Remove the three screws "c" (B 2.6X6) near the connectors.
3. Remove the two fixing screws "d" (B 3x6) scuring the AC inlet.
4. While grasping the board holder with small pliers, remove the PS-363 board.
5. Disconnect the two connectors (CN115, CN116) from the AA-79 board.
6. Remove the four fixing screws "e" (BVTP 3x8), the remove the rear panel assembly in the direction of arrow C.
A
Board holder
C
CN-1478 board Connector CN115 (from AA-93 board)
Connector CN116 (from AA-93 board)
AC inlet
PS-363 board
Screw "b" (2 pcs) BVTP 3x8 TYPE 2
PS-364 board
B
CONTROL UNIT SX-M700
Screw "a" (5 pcs) B 3x6 TYPE 2
Screw "b" (2 pcs) BVTP 3x8 TYPE2
② Removal of the Front Panel Assembly
1. Remove the five volume control knobs.
2. Remove the two screws "b" (BVTP 3x8) from the left and right side panels, then remove the front panel assembly in the direction of arrow B.
Volume control knobs



① Removal of the Top Panel

1. Remove the ten fixing screws “a” (B 3×6).
2. Remove the top panel the direction of arrow **A**.

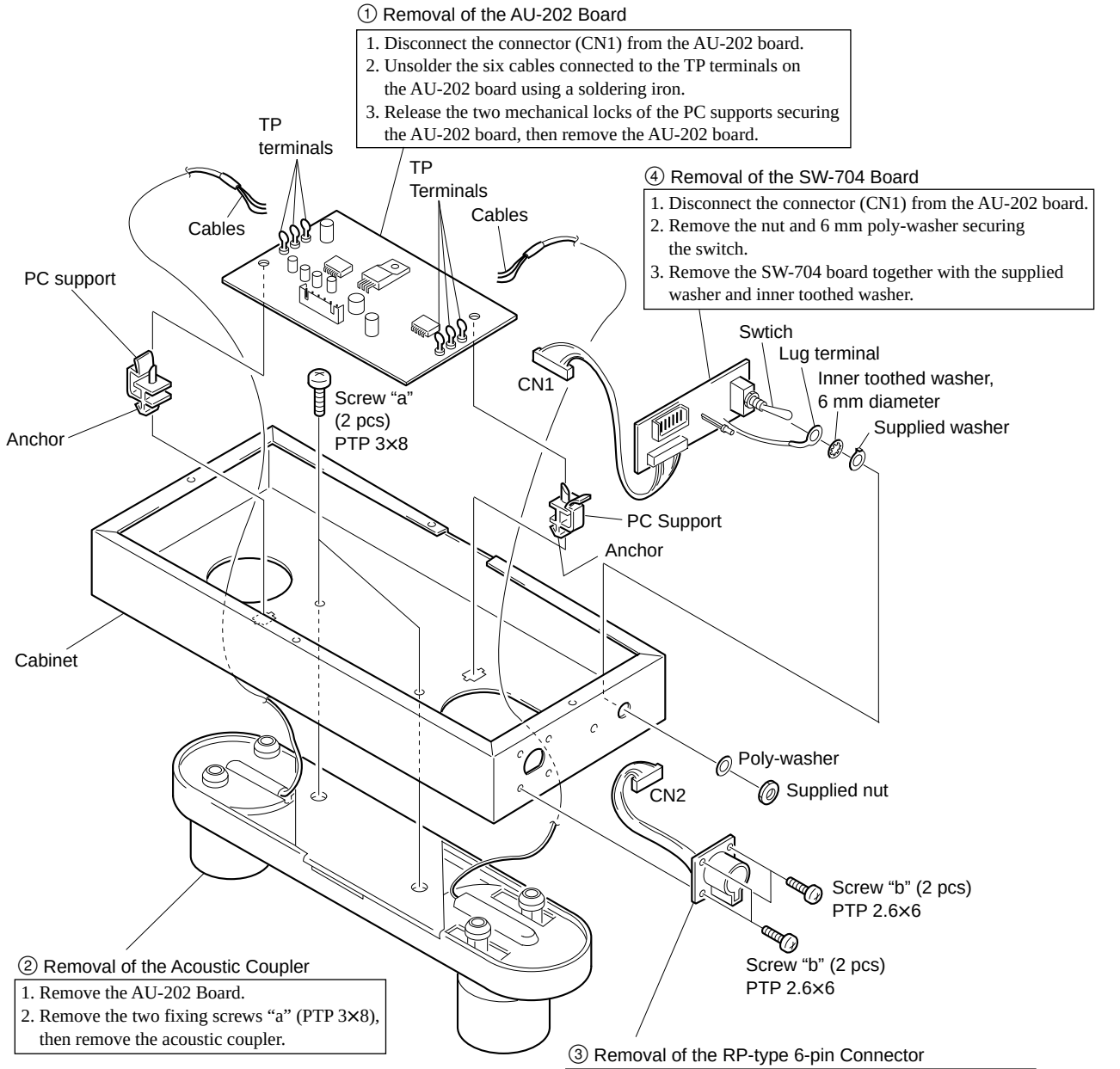
② Removal of the Rear Panel Assembly

1. Release the power lamp harness from its harness clamp. Disconnect the connector from the power lamp.
2. Remove the two fixing screws “b” (BVTP 3×8) from the left and right side panels, then remove the front panel assembly in the direction of arrow **B**.

③ Removal of the Front Panel Assembly

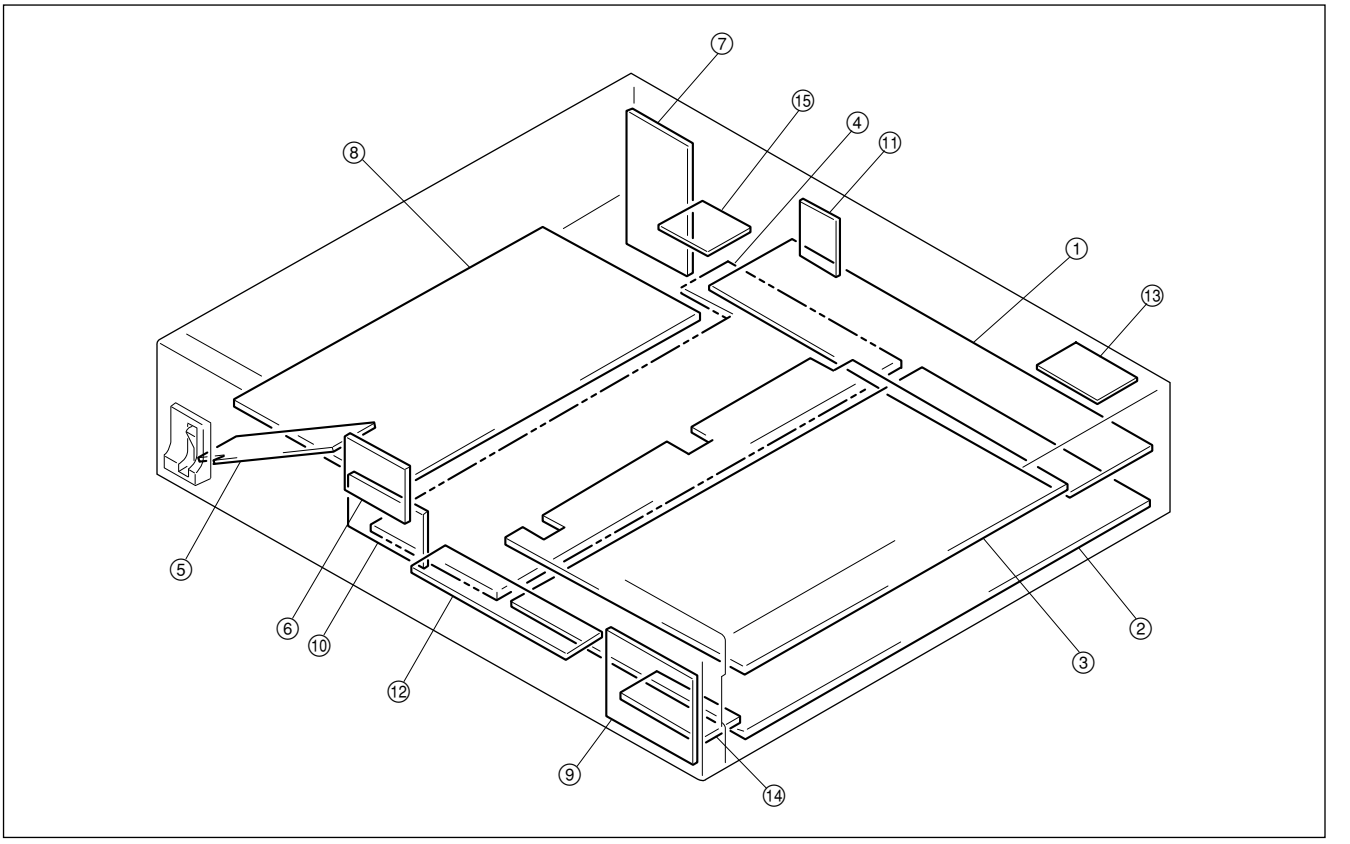
1. Remove the top panel.
2. Release the power lamp harness from its harness clamp. Disconnect the connector from the power lamp.
3. Cut the harness tie band.
4. Remove the fixing screw “c” (PSW 4×8) securing the GND lug of the harness coming from the connector (CN903).
5. Disconnect the connector (CN903) from the PS-364 board.
6. Disconnect the connector (CN908) from the AL-31 board.
7. Remove the fixing screw “d” (PSW 4×8) securing the GND lug of the PS-363 board.
8. Remove the three screws “e” (B 2.6×6) near the connectors.
9. Remove the four fixing screws “f” (BVTP 3×8), then remove the rear panel assembly in the direction of arrow **C**.

SX-T100


① Removal of the AU-202 Board
1. Disconnect the connector (CN1) from the AU-202 board.
2. Unsolder the six cables connected to the TP terminals on the AU-202 board using a soldering iron.
3. Release the two mechanical locks of the PC supports securing the AU-202 board, then remove the AU-202 board.
TP terminals
TP Terminals
Cables
Cables
④ Removal of the SW-704 Board
1. Disconnect the connector (CN1) from the AU-202 board.
2. Remove the nut and 6 mm poly-washer securing the switch.
3. Remove the SW-704 board together with the supplied washer and inner toothed washer.
PC support
Swtich
Lug terminal
Inner toothed washer, 6 mm diameter
Supplied washer
CN1
Screw "a" (2 pcs) PTP 3×8
Anchor
PC Support
Anchor
Cabinet
Poly-washer
Supplied nut
CN2
Screw "b" (2 pcs) PTP 2.6×6
Screw "b" (2 pcs) PTP 2.6×6
② Removal of the Acoustic Coupler
1. Remove the AU-202 Board.
2. Remove the two fixing screws "a" (PTP 3×8), then remove the acoustic coupler.
③ Removal of the RP-type 6-pin Connector
1. Disconnect the connector (CN2) from the SW-704 board.
2. Unscrew the four screws "b" (PTP 2.6×6), then disconnect the RP-type 6-pin connector.

2-2. BOARD LOCATIONS

SX-M700/M100



INDEX
① AA-79 board
② AA-93 board
③ CPU-18 board
④ CPU-188 board (SXA-120)
⑤ HP-65 board
⑥ MT-105 board
⑦ PS-363 board
⑧ PS-364 board
⑨ SW-710 board
⑩ SW-722 board (SX-M700 ONLY)
⑪ SW-723 board (SX-M700 ONLY)
⑫ VR-233 board
⑬ CN-1478 board
⑭ TR-107 board
⑮ AC-190 board (J, EK only)

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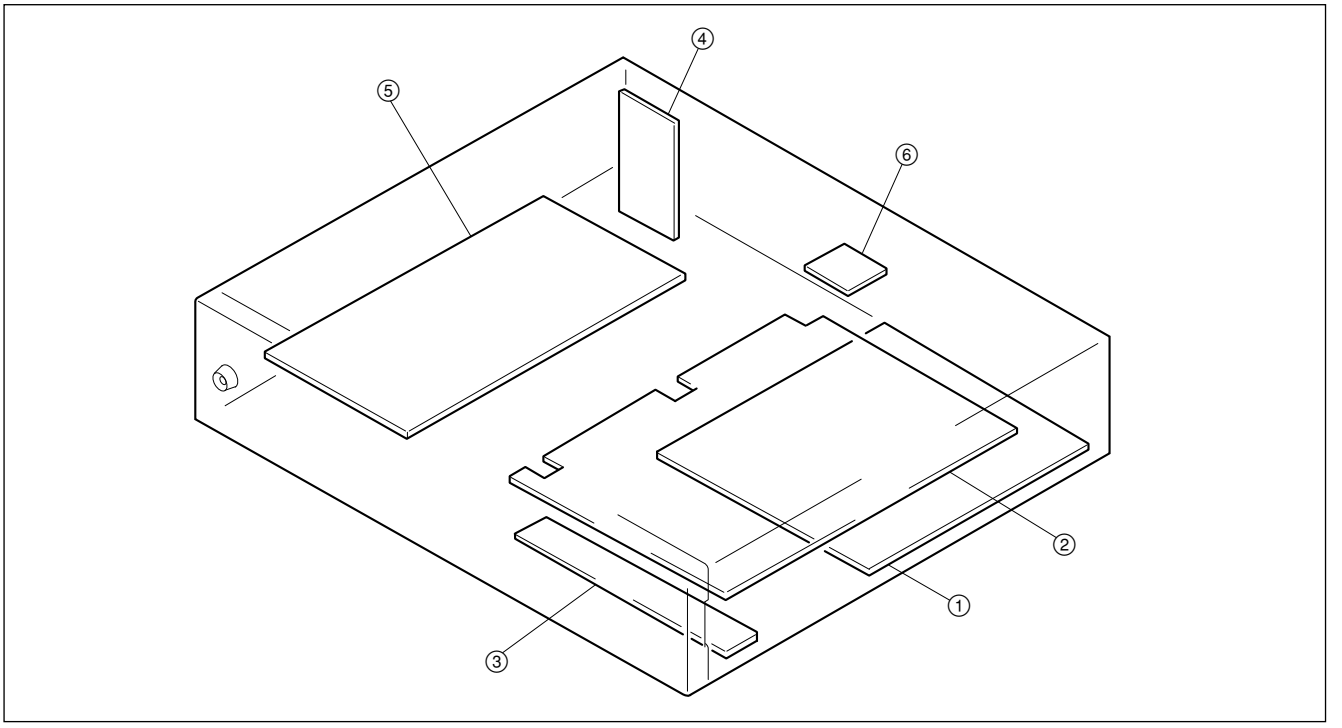
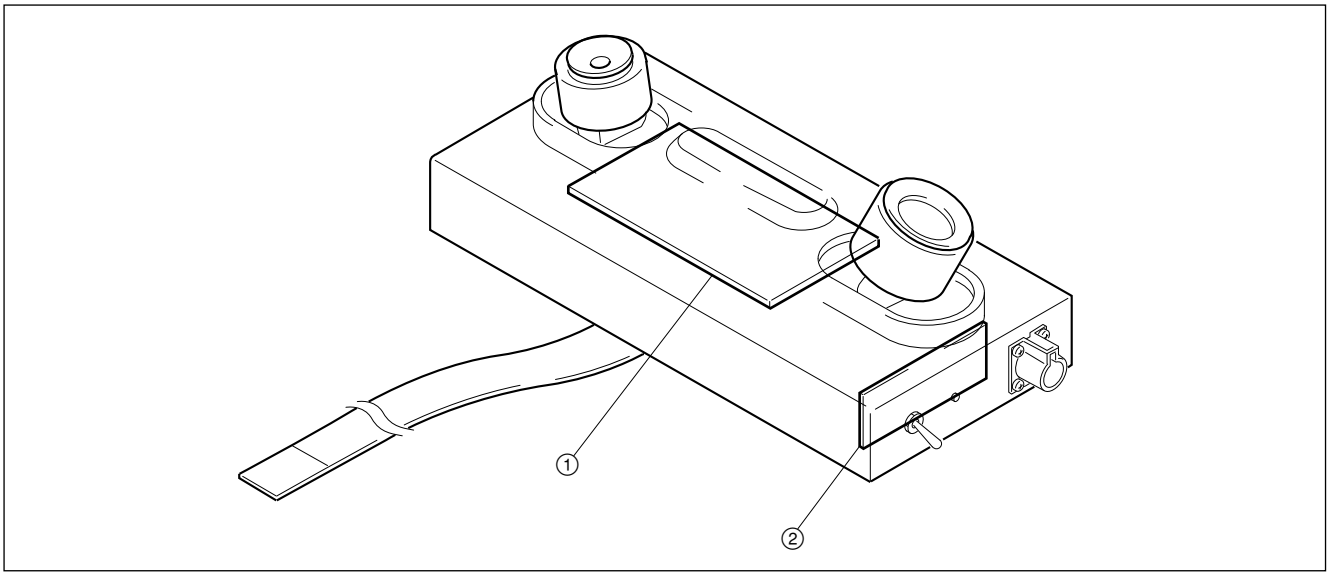
SX-E120



INDEX
① AL-31 board
② CPU-181 board
③ DU-3 board
④ PS-363 board
⑤ PS-364 board
⑥ AC-190 board (J, EK only)

SX-T100



INDEX
① AU-202 board
② SW-704 board

2-3. BOARD REMOVAL (SX-M700/M100/E120)

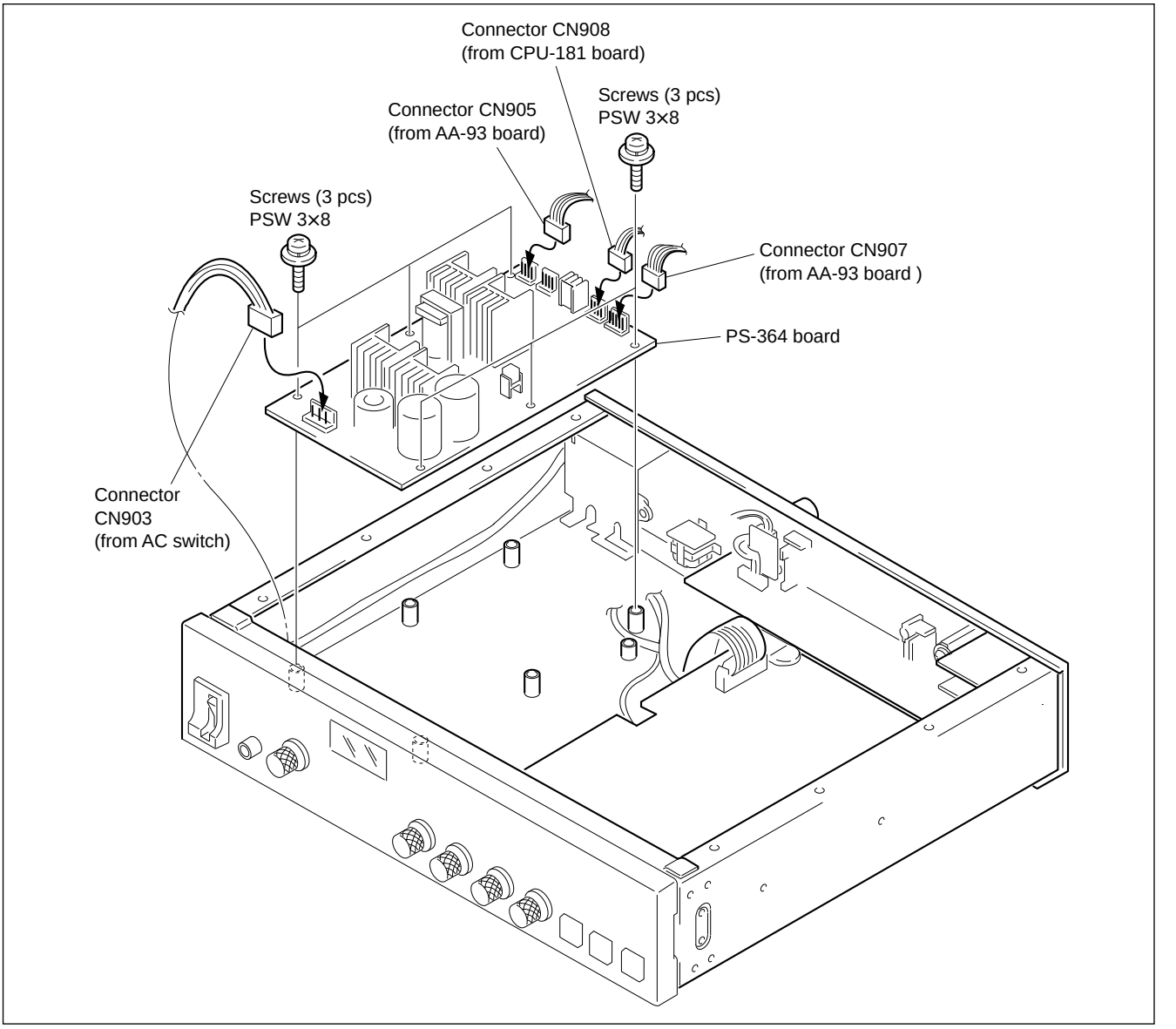
Caution : Before removing the boards, be sure to turn off the main power.

2-3-1. Removal of the PS-364 Board

SX-M700/M100

Procedure

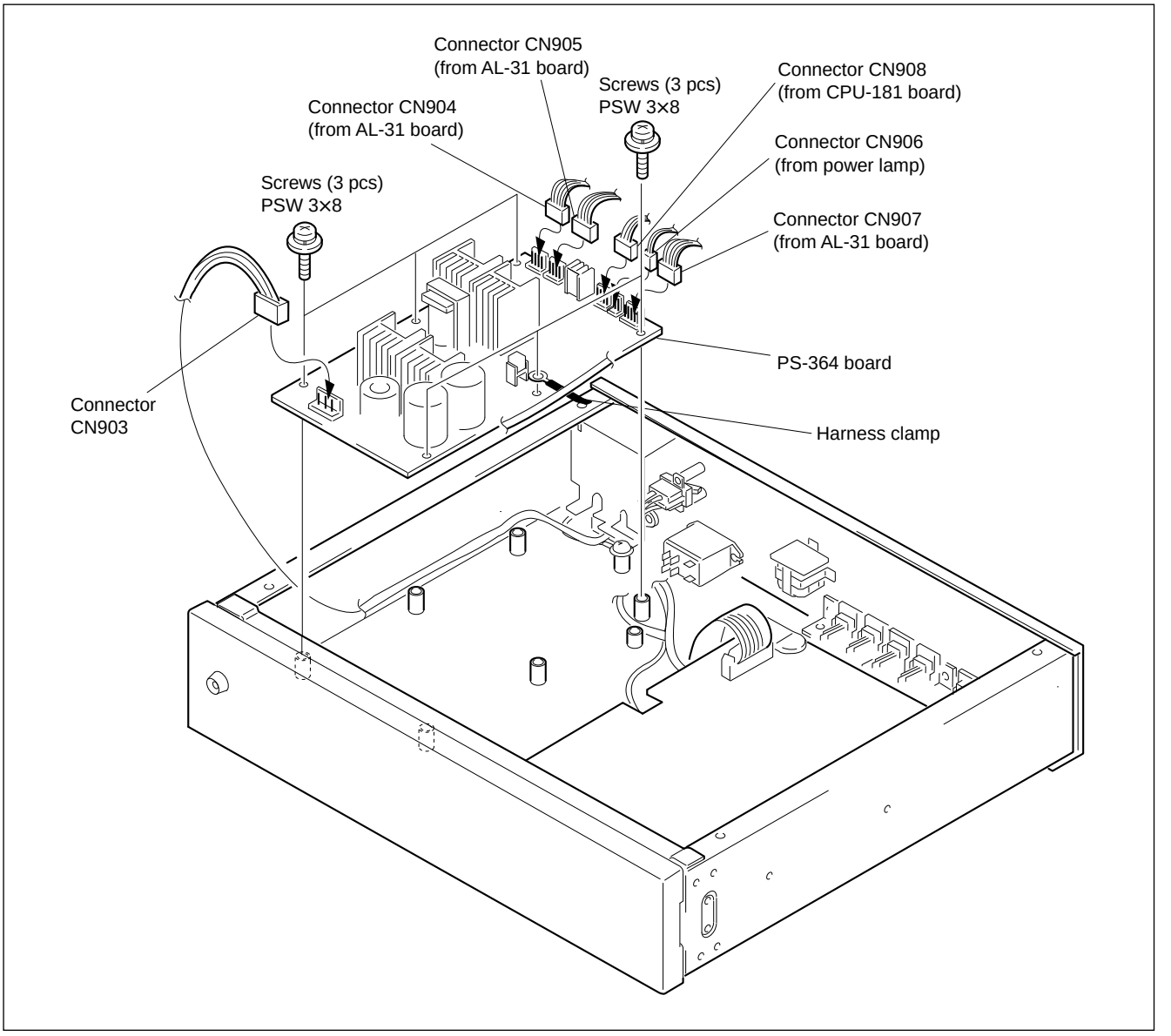
1. Remove the top panel. (Refer to section, “2-1. REMOVAL OF THE EXTERNAL PANELS”.)
2. Disconnect the four connectors (CN903, CN905, CN907, CN908) from the PS-364 board.
3. Remove the six screws (PSW 3×8), then remove the PS-364 board.



SX-E120

Procedure

1. Remove the top panel. (Refer to section, “2-1. REMOVAL OF THE EXTERNAL PANELS”.)
2. Open the harness clamp securing the harness to the PS-364 board.
3. Disconnect the six connectors (CN903 to CN908) from the PS-364 board.
4. Remove the six screws (PSW 3×8), then remove the PS-364 board.

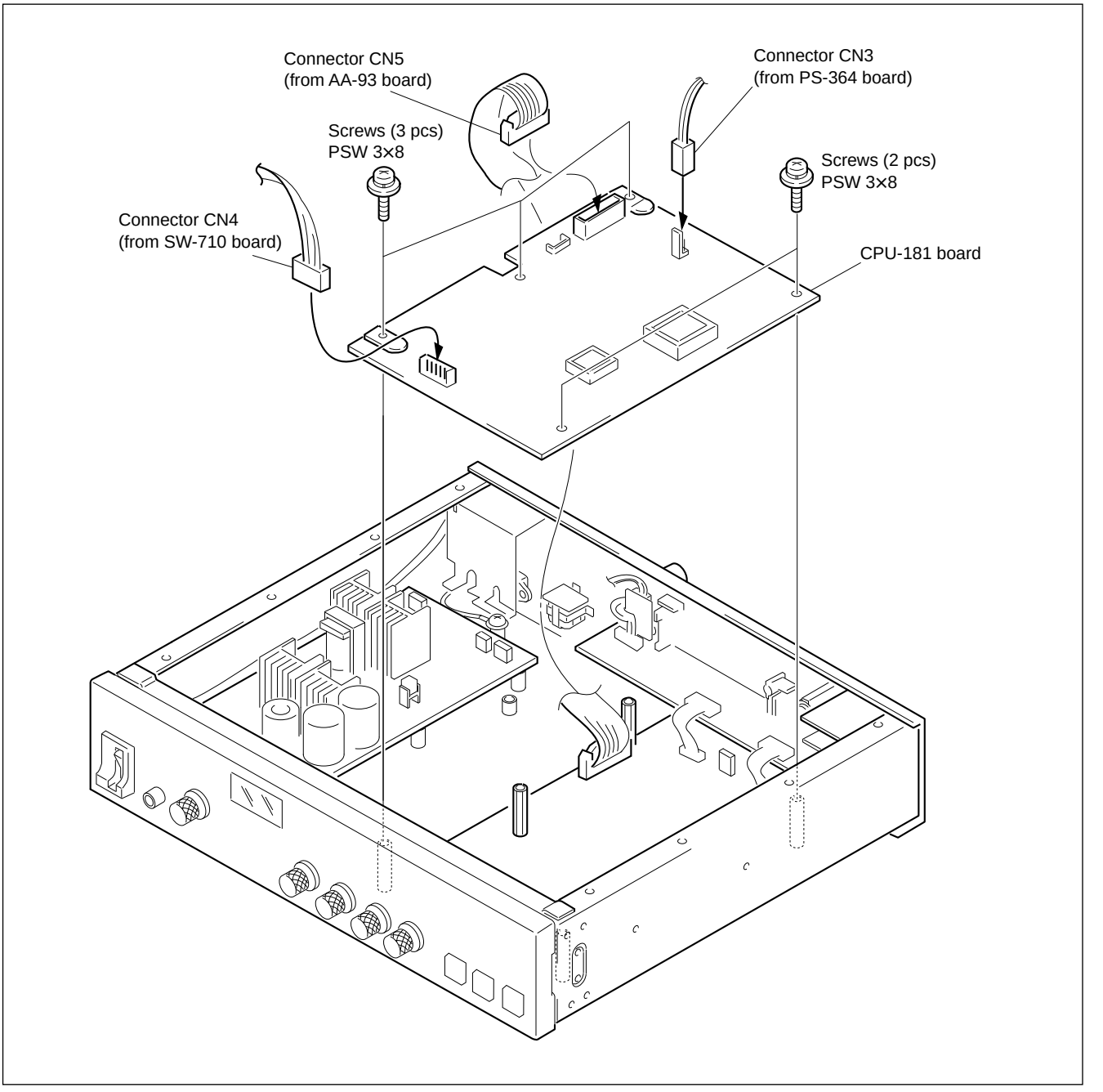


2-3-2. Removal of the CPU-181 Board

SX-M700/M100

Procedure

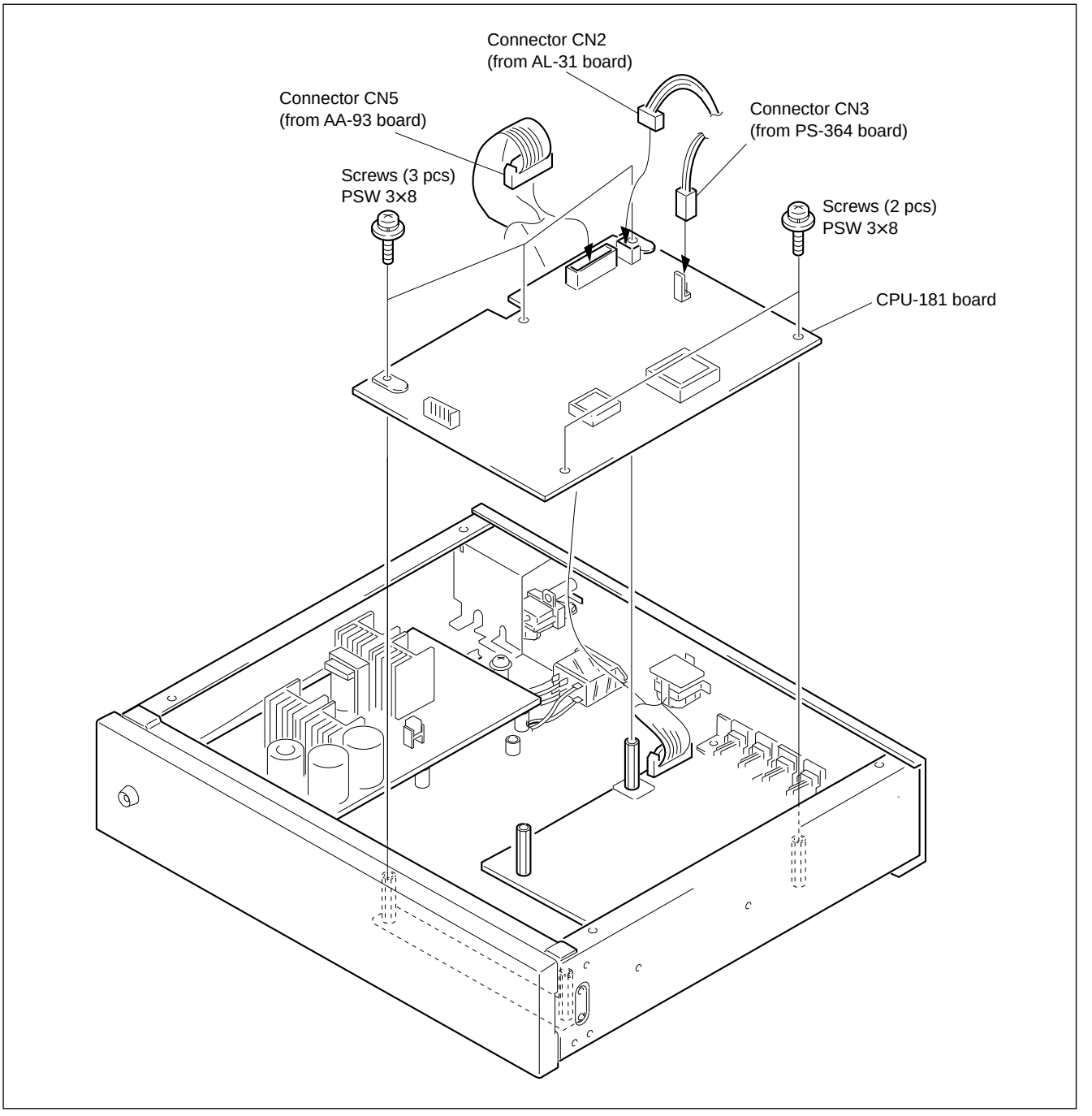
1. Remove the top panel. (Refer to section, “2-1. REMOVAL OF THE EXTERNAL PANELS”.)
2. Disconnect the three connectors (CN3, CN4, CN5) from the CPU-181 board.
3. Remove the five screws (PSW 3×8), then remove the CPU-181 board.



SX-E120

Procedure

1. Remove the top panel. (Refer to section, “2-1. REMOVAL OF THE EXTERNAL PANELS”.)
2. Disconnect the three connectors (CN2, CN3, CN5) from the CPU-181 board.
3. Remove the five screws (PSW 3×8) then remove the CPU-181 board.

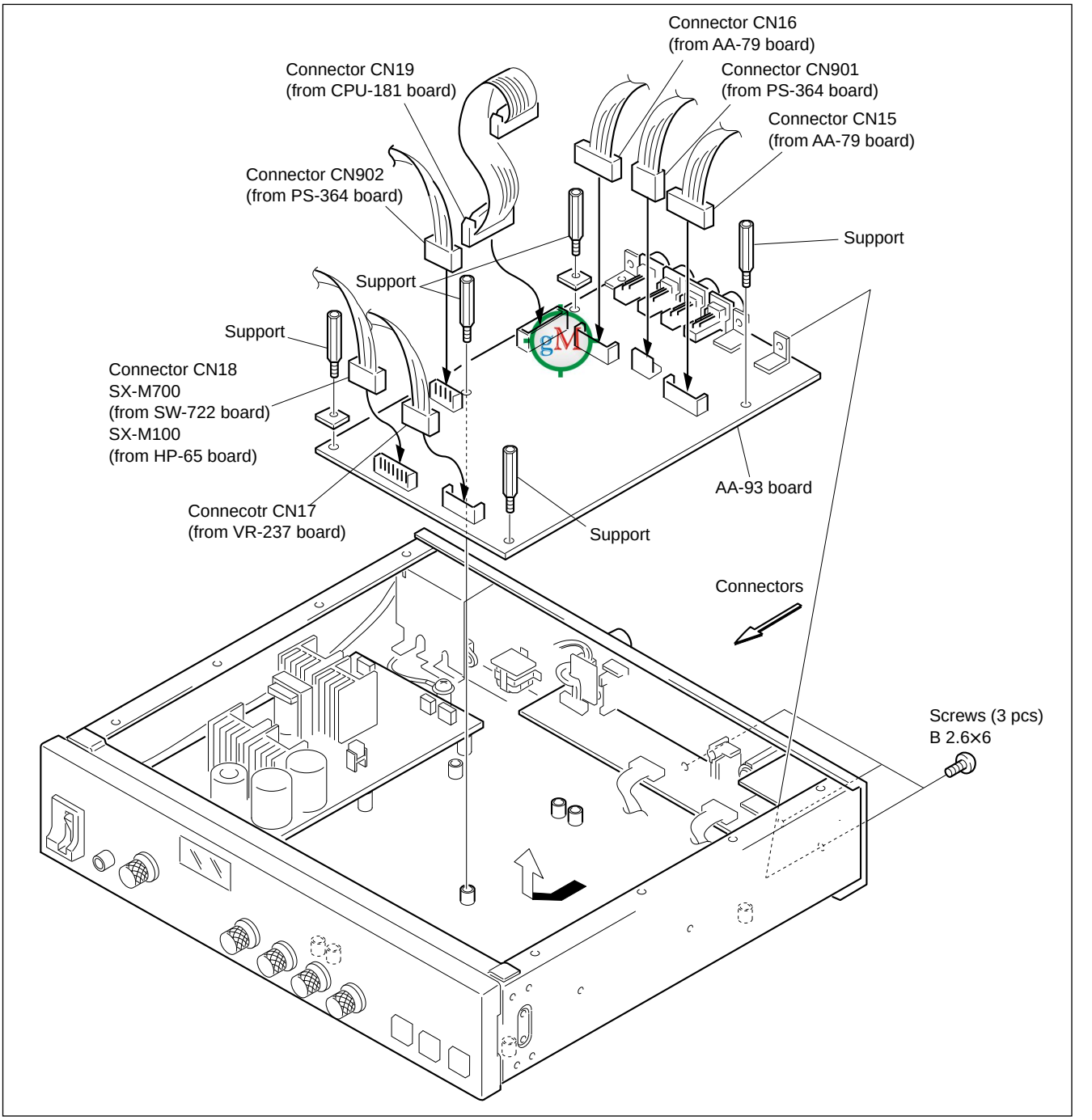


2-3-3. Removal of the AA-93 Board (SX-M700/M100)

Required Tools : Nutdriver (7 mm)
Sony Part No. : 7-700-751-06

Procedure

1. Remove the top panel. (Refer to section, “2-1. REMOVAL OF THE EXTERNAL PANELS”.)
2. Remove the CPU-181 board. (Refer to section, “2-3-2. Removal of the CPU-181 Board”.)
3. Remove the three screws (B 2.6×6) near the connectors.
4. Disconnect the seven connectors (CN15 to CN19, CN901, CN902) from the AA-93 board.
5. Remove the five supports securing the AA-93 board. Remove the AA-93 board in the direction of the arrow.

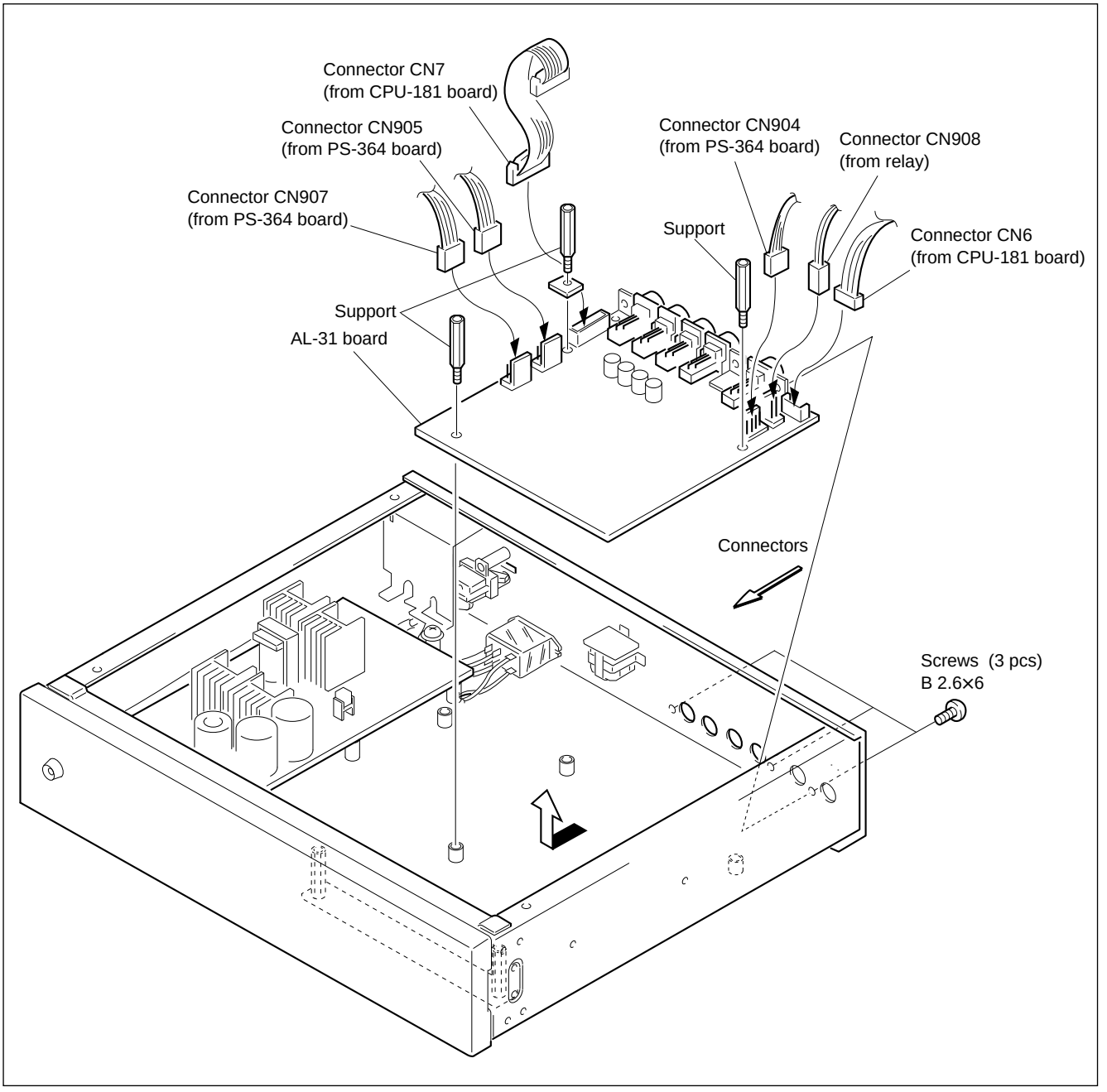


2-3-4. Removal of the AL-31 Board (SX-E120)

Required Tools : Nutdriver (7 mm)
Sony Part No. : 7-700-751-06

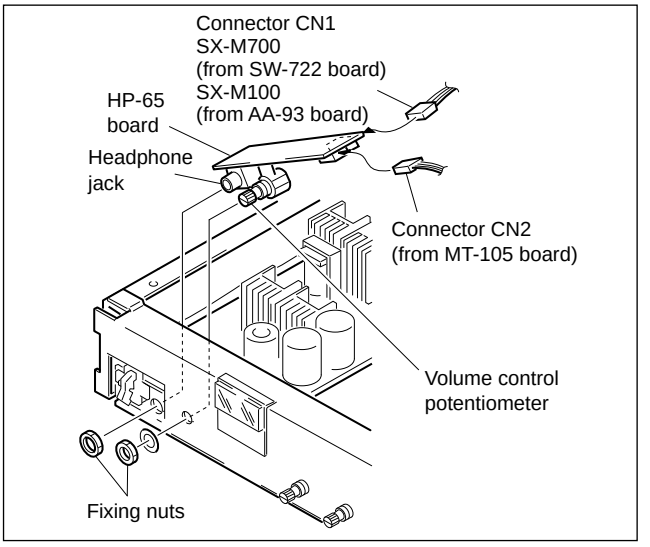
Procedure

1. Remove the top panel. (Refer to section, “2-1. REMOVAL OF THE EXTERNAL PANELS”.)
2. Remove the CPU-181 board. (Refer to section, “2-3-2. Removal of the CPU-181 Board”.)
3. Remove the three screws (B 2.6×6) near the connectors.
4. Disconnect the six connectors (CN6, CN7, CN904, CN905, CN907, CN908) from the AL-31 board.
5. Remove the three supports securing the AL-31 board. Remove the AL-31 board in the direction of the arrow.



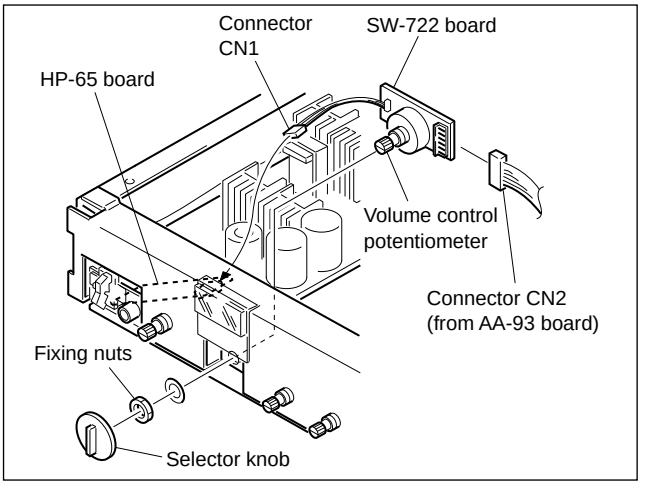
2-3-5. Removal of the HP-65 Board (SX-M700/M100)

Procedure
1. Remove the top panel. (Refer to section, “2-1. REMOVAL OF THE EXTERNAL PANELS”.)
2. Remove the front panel assembly. (Refer to section, “2-1. REMOVAL OF THE EXTERNAL PANELS”.)
3. Remove the fixing nut securing the headphone jack.
4. Remove the fixing nut securing the volume control potentiometer.



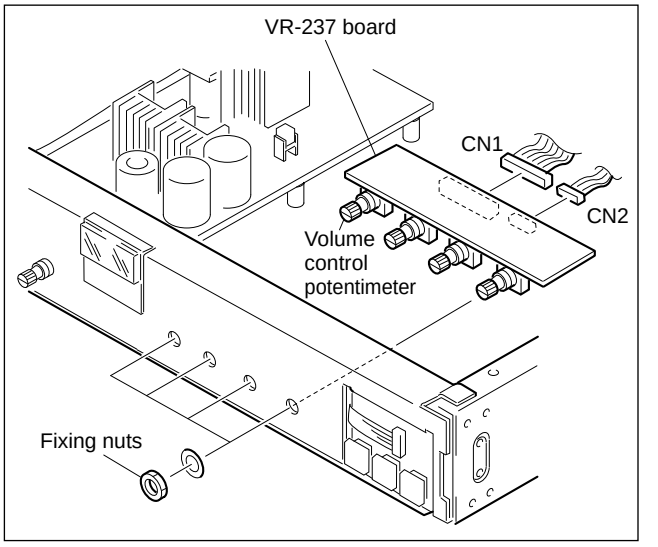
2-3-6. Removal of the SW-722 Board (SX-M700)

Procedure
1. Remove the top panel. (Refer to section, “2-1. REMOVAL OF THE EXTERNAL PANELS”.)
2. Remove the front panel assembly. (Refer to section, “2-1. REMOVAL OF THE EXTERNAL PANELS”.)
3. Remove the selector knob.
4. Disconnect the connector (CN1) from the HP-65 board.
5. Remove the fixing nut securing the volume control potentiometer.
6. Disconnect the connector (CN2) from the SW-722 board.



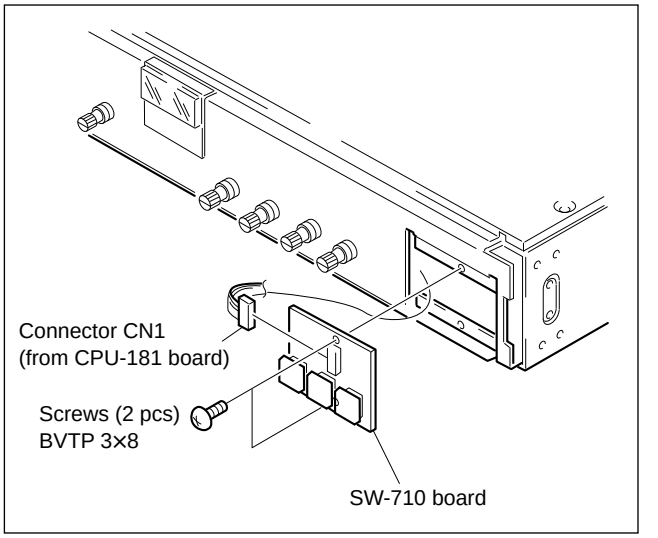
2-3-7. Removal of the VR-237 Board (SX-M700/M100)

Procedure
1. Remove the top panel. (Refer to section, “2-1. REMOVAL OF THE EXTERNAL PANELS”.)
2. Remove the front panel assembly. (Refer to section, “2-1. REMOVAL OF THE EXTERNAL PANELS”.)
3. Remove the four fixing nuts securing the volume control potentiometers.
4. Disconnect the connectors (CN1, CN2) from the VR-237 board.



2-3-8. Removal of the SW-710 Board (SX-M700/M100)

Procedure
1. Remove the front panel assembly. (Refer to section, “2-1. REMOVAL OF THE EXTERNAL PANELS”.)
2. Disconnect the connector (CN1) from the SW-710 board.
3. Remove the two fixing screws (BVTP 3×8) securing the SW-710 board.



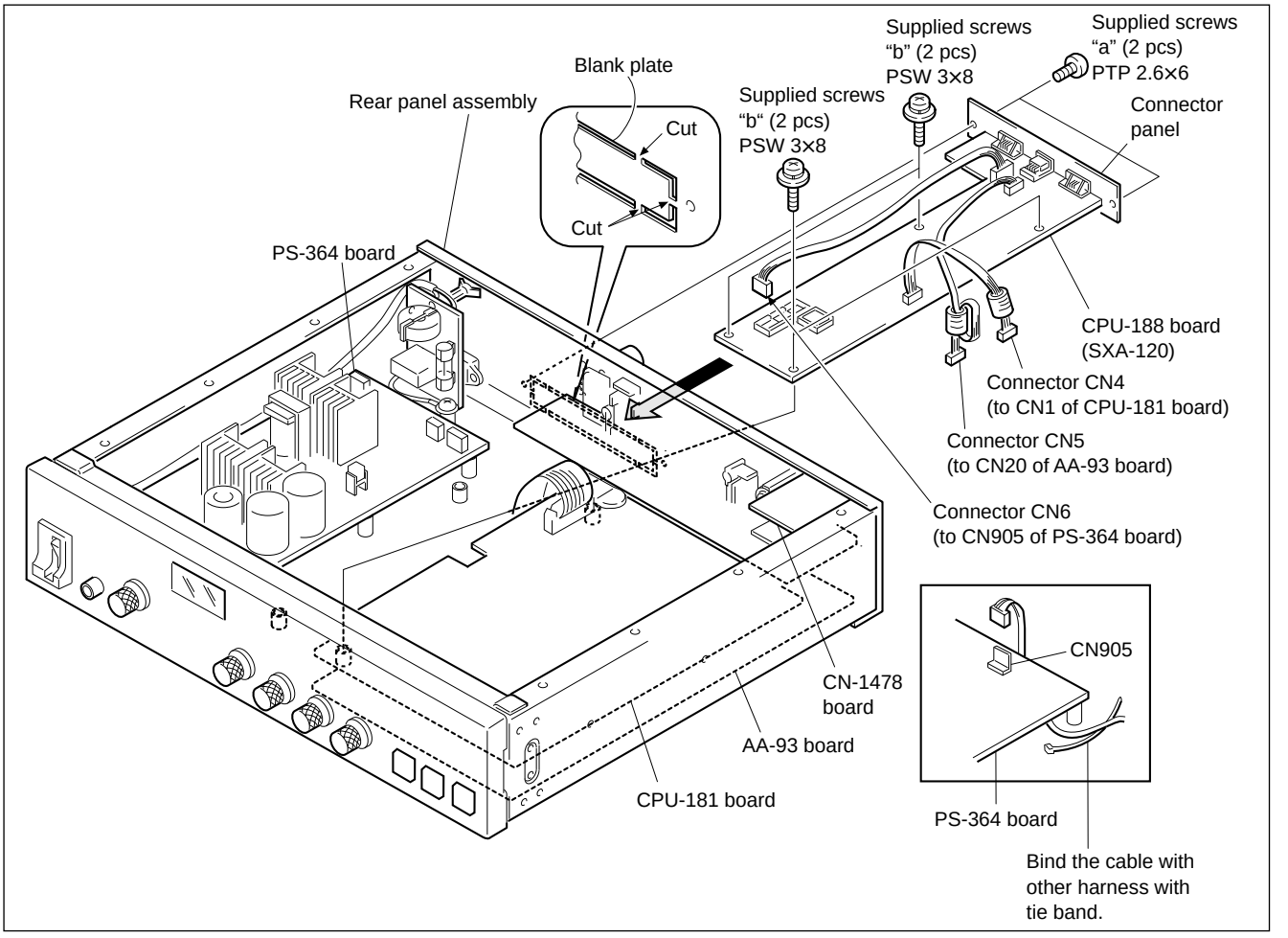
2-4. INSTALLATION OF THE EXPANSION BOARD (SXA-120)

• The expansion board SXA-120 (option) can be attached to the SX-M700 and SX-M100.

CPU-188 Board (SXA-120)	Main Unit (SX-M700/M100)
CN4	To CN1 of CPU-181 board
CN5	To CN20 of AA-93 board
CN6	To CN905 of PS-364 board

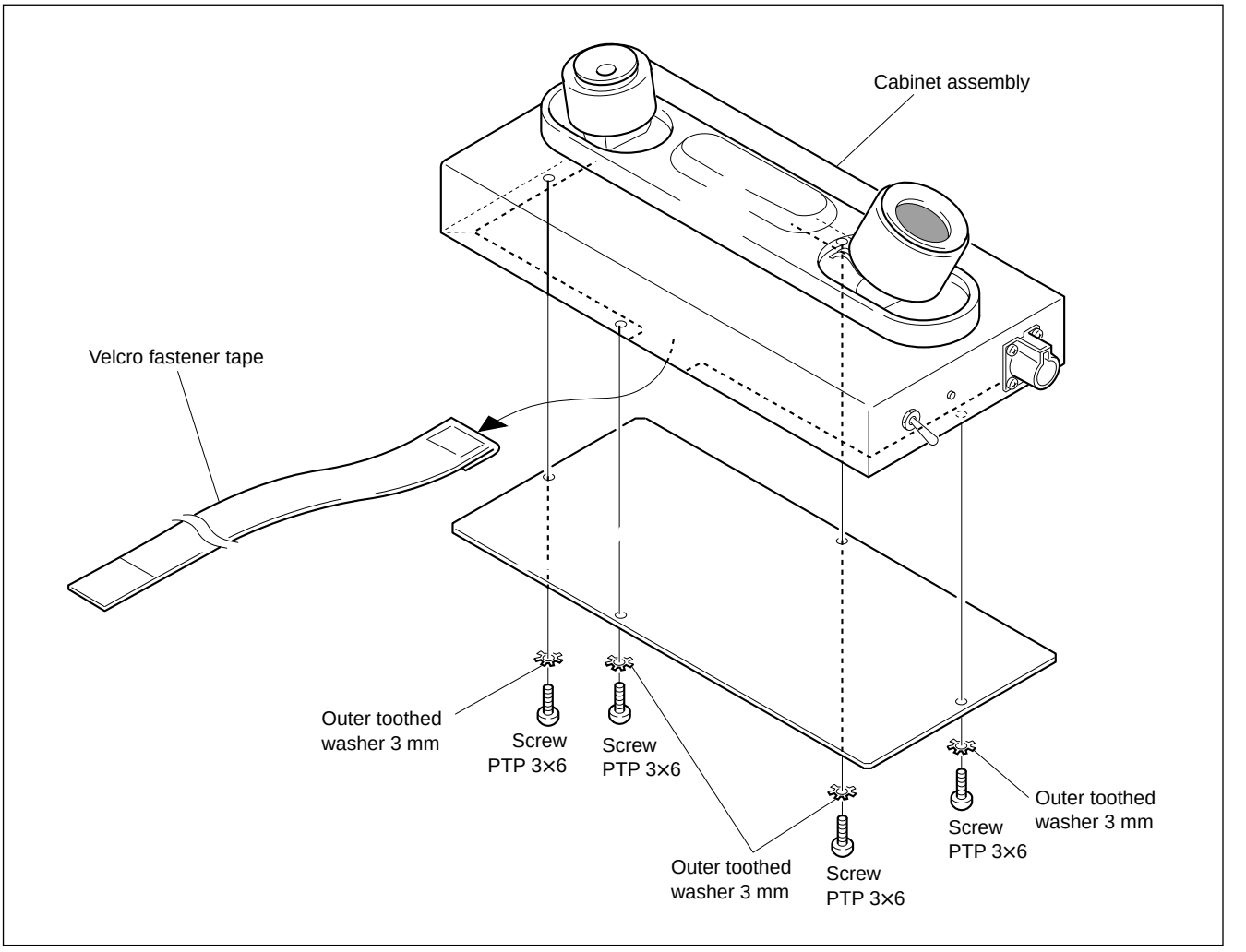
Procedure

1. Remove the top panel. (Refer to section, “2-1. REMOVAL OF THE EXTERNAL PANELS”.)
2. Use cutting pliers to remove the connection portions (six portions) where the blank plate is connected to the rear panel.
3. Insert a CPU-188 board (SXA-120) in the direction of the arrow.
4. Attach the connector panel using two screws “a” (PTP 2.6×6) supplied.
5. Fix the CPU-188 board using four screws “b” (PSW 3×8) supplied.
6. Connect the three connectors of the CPU-188 board cables to the respective boards. Route the cable from CN6 under the PS-364 board.
7. Bind the harness from CN6 together with other harness with tie band.



2-5. REMOVAL OF THE VELCRO FASTENER TAPE (SX-T100)

1. Remove the four screws (PTP 3×6) and remove the four outer toothed 3 mm washers.
2. Remove the Velcro fastener tape.



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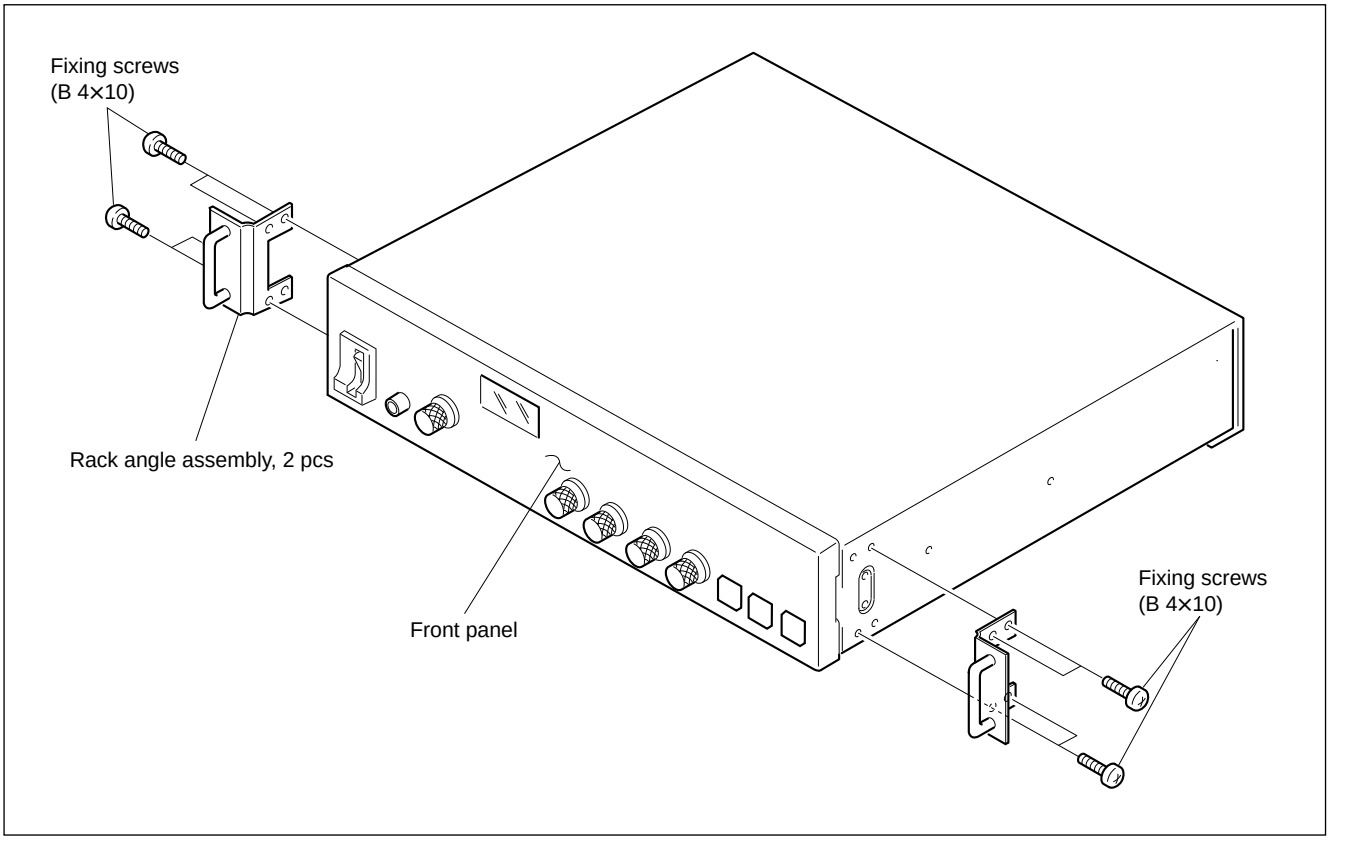
2-6. RACK MOUNT

The SX-M700, SX-M100 and SX-E120 can be attached to the EIA standard 19-inch rack using the following angles:

Parts required : Rack angle assembly 2 pcs (A-8310-721-A)
Screw B 4×10 8 pcs (7-682-562-09)
Screw RK 5×10 4 pcs (7-682-375-09)
Ornament washer 4 pcs (3-703-064-11)

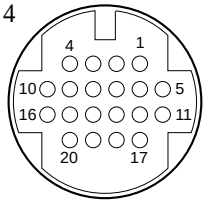
1. Attach the rack angle assemblies to the left and right of the unit using the eight screws (B 4×10).
2. Attach the unit to the 19-inch rack using the ornament washers and screws (RK 5×10).



2-7. CONNECTOR INPUT AND OUTPUT SIGNALS

SX-M700/M100/E120

DELEGATE' S/CHAIRMAN' S UNIT 1 ~ 4
(5 ~ 8 for SX-E120)
PR13A type, 20 pin
-OUTSIDE VIEW-

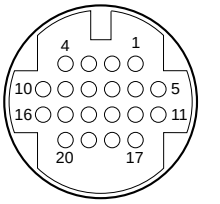


Pin No.	Signal Name	IN/OUT	Description
1	ORG OUT	OUT	ORIGINAL audio signal
2	CH2 OUT	OUT	CH-2 audio signal
3	CH1 OUT	OUT	CH-1 audio signal
4	CH3 OUT	OUT	CH-3 audio signal
5	P. GND		24V power supply GND
6	CH4 OUT	OUT	CH-4 audio signal
7	CH6 OUT	OUT	CH-6 audio signal
8	CH5 OUT	OUT	CH-5 audio signal
9	N.C		Not connected
10	D/C U MIC IN	IN	Input from the D/C U MIC
11	D. GND		Digital power supply GND
12	24V OUT	OUT	24V power supply
13	P. GND		24V power supply GND
14	24V OUT	OUT	24V power supply
15	24V OUT	OUT	24V power supply
16	24V OUT	OUT	24V power supply
17	DTx+OUT	OUT	Time-shared serial data RS-485 (+)
18	DTx–OUT∗	OUT	Time-shared serial data RS-485 (–)
19	CXx+OUT∗	OUT	CK output RS-422 (+)
20	CXx–OUT∗	OUT	CK output RS-422 (–)

∗ The suffix "x" becomes "0" for connector number 1, "1" for connector number 2, "2" for connector number 3, and "3" for connector number 4.

SX-M700 ONLY

INTERPRETER' S UNIT 1/2
(Used only in SX-M700)
PR13A type, 20 pin
-OUTSIDE VIEW-



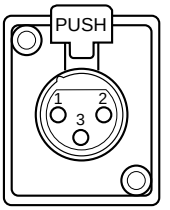
Pin No.	Signal Name	IN/OUT	Description
1	ORG OUT	OUT	ORIGINAL audio signal
2	CH2 IN/ORG OUT	IN/OUT	CH-2 audio signal∗
3	CH1 IN/ORG OUT	IN/OUT	CH-1 audio signal∗
4	CH3 IN/ORG OUT	IN/OUT	CH-3 audio signal∗
5	P. GND		24V power supply GND
6	CH4 IN/ORG OUT	IN/OUT	CH-4 audio signal∗
7	CH6 IN/ORG OUT	IN/OUT	CH-6 audio signal∗
8	CH5 IN/ORG OUT	IN/OUT	CH-5 audio signal∗
9	N.C		Not connected
10	SLOW IN	IN	SLOW control signal
11	CONT6 IN	IN	CH-6/ORG selector control signal
12	CONT1 IN	IN	CH-1/ORG selector control signal
13	P. GND		24V power supply GND
14	24V OUT	OUT	24V power supply GND
15	24V OUT	OUT	24V power supply GND
16	24V OUT	OUT	24V power supply GND
17	CONT2 IN	IN	CH-2/ORG selector control signal
18	CONT3 IN	IN	CH-3/ORG selector control signal
19	CONT4 IN	IN	CH-4/ORG selector control signal
20	CONT5 IN	IN	CH-5/ORG selector control signal

∗ For the channels to which the interpreter's audio is not switched on, output the ORG OUT signal.

LINE OUT CH1 ~ CH6 : PIN, JACK
LINE output
For the channels to which the interpreter's audio is not switched on, output the ORG OUT signal.

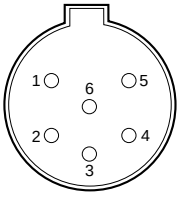
SX-M700/M100 ONLY

EXT IN-1 MIC
XLR 3 pin, female, balanced
-OUTSIDE VIEW-



Pin No.	Signal Name	IN/OUT	Description
1	GND	——	————
2	MIC IN X	IN	Input External MIC input (X)
3	MIC IN Y	IN	Input External MIC input (Y)

TELEPHONE COUPLER
RP type, 6pin
-OUTSIDE VIEW-



Pin No.	Signal Name	IN/OUT	Description
1	CPL MIC IN	IN	Telephone coupler
2	CPL MIC GND		GND of CPL MIC IN signal
3	24V OUT	OUT	24V power supply output
4	P. GND		24V power supply GND
5	MONIT OUT	OUT	Output audio signal to telephone coupler
6	A. GND		GND of MONIT OUT signal

EXT IN-2 MIC : Jack, large type
External MIC input, unbalanced

EXT IN-1/2 LINE IN : Pin, Jack
External LINE input

LINE OUT GRG 1/2 : Pin, Jack
ORG output

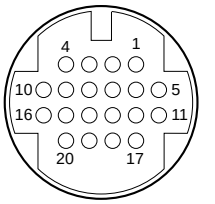
PHONES : Pin, Jack
HEADPHONE output

EXT UNIT IN : Phone jack
Input level 1.23 V (+4 dB)
Input impedance 10 kΩ

EXT UNIT OUT : Phone jack
Output level 1.23 V (+4 dB)
Load impedance 10 kΩ

SX-E120 ONLY

CONTROL UNIT
(Used only in SX-E120)
PR13A type, 20 pin
-OUTSIDE VIEW-



Pin No.	Signal Name	IN/OUT	Description
1	ORG IN	IN	ORIGINAL audio signal
2	CH2 IN*	IN	CH-2 audio signal
3	CH1 IN*	IN	CH-1 audio signal
4	CH3 IN*	IN	CH-3 audio signal
5	P. GND		24V power supply GND
6	CH4 IN*	IN	CH-4 audio signal
7	CH6 IN*	IN	CH-6 audio signal
8	CH5 IN*	IN	CH-5 audio signal
9	N.C		Not connected
10	D/C U MIC OUT	OUT	Output from the D/C U MIC
11	D. GND		Digital power supply GND
12	24V IN	IN	24V power to relays
13	P. GND		24V power supply GND
14	24V OUT	OUT	24V power supply
15	24V OUT	OUT	24V power supply
16	24V OUT	OUT	24V power supply
17	RXD	OUT	RS-232C data input, 9600 bps
18	CTS	OUT	RS-232C control input
19	TXD	OUT	RS-232C data output, 9600 bps
20	PTS	OUT	RS-232C control output

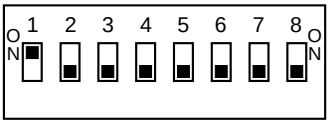
* If the SX-M100 control unit is connected, the ORG signal is used.

2-8. SWITCH SETTING

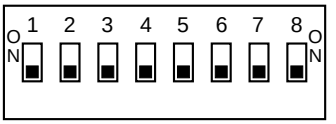
Set up the BIT switch on the CPU-181 board

Factory default settings

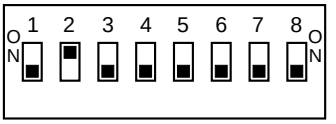
SX-M700



SX-M100

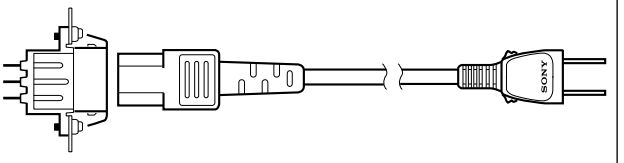


SX-E120



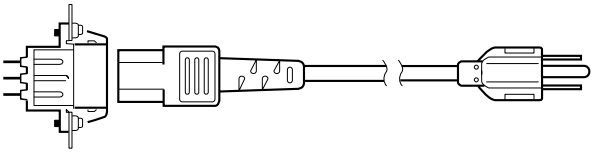
2-9. POWER CORD (SUPPLIED)

J: 1-534-754-00



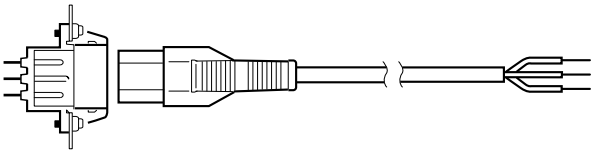
AC inlet
(Control Unit)

U: 1-551-812-11



AC inlet
(Control Unit)

EK: 1-590-910-11



AC inlet
(Control Unit)

2-10. SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

Check that the set does not have leakage current in excess of 0.5 mA when measured as described below.

All exposed conductive surfaces are to be tested for leakage currents. The leakage currents from these surfaces are to be measured to the grounded supply conductor individually as well as collectively where simultaneously accessible, and from one surface to another where simultaneously accessible. These measurements do not apply to terminals operating at voltages that are less than 30 volts.

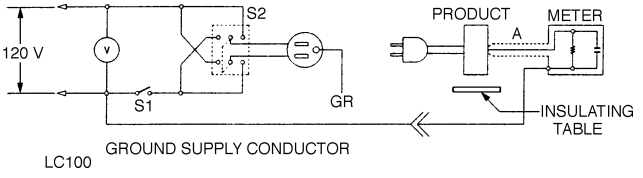
The measurement circuit for the leakage current test is as described below. The measurement instruments defined in the following (a)-(d).

a) The meter is to have an input impedance of 1500 ohms resistive shunted by a capacitance of 0.15 microfarad.
b) The meter is indicate 1.11 times the average of the full wave rectified composite waveform of voltage across the resistor or current through the resistor.
c) Over a frequency range of 0-100 kilohertz the measurement circuitry is to have a frequency response (ratio of indicated to actual value of current) that is equal to the ratio of the impedance of a 1500 ohm resistor shunted by a 0.15 microfarad capacitor to 1500 ohms. At an indication of 0.5 milliampere, the measurement is to have an error of not more than 5 percent at 60 Hz.
d) Unless the meter is being used to measure current from one part of the equipment to another, the meter is to be connected between the accessible parts and the grounded supply conductor.

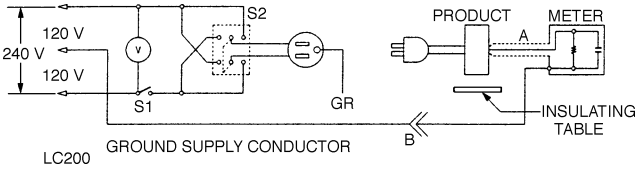
The test sequence is as follows:

a) With switch S1 open, the equipment is to be connected to measuring circuit. Leakage current is to be measured using both positions of switch S2, and with the equipment switching devices in all of their intended operating positions.
b) Switch S1 is then to be closed, energizing the equipment, and within 5 seconds the leakage current is to be measured using both positions of switch S2, and with the equipment switching devices in all their intended operating position.
c) Leakage current is to be monitored until thermal stabilization. Both positions of S2 are to be used in determining this measurement.

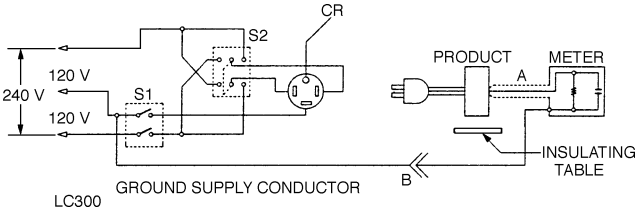
Leakage current measurement circuits



Equipment intended for connection to a 120 volt power supply.



Equipment intended for connection to a 3-wire, grounded neutral power supply, as illustrated above.



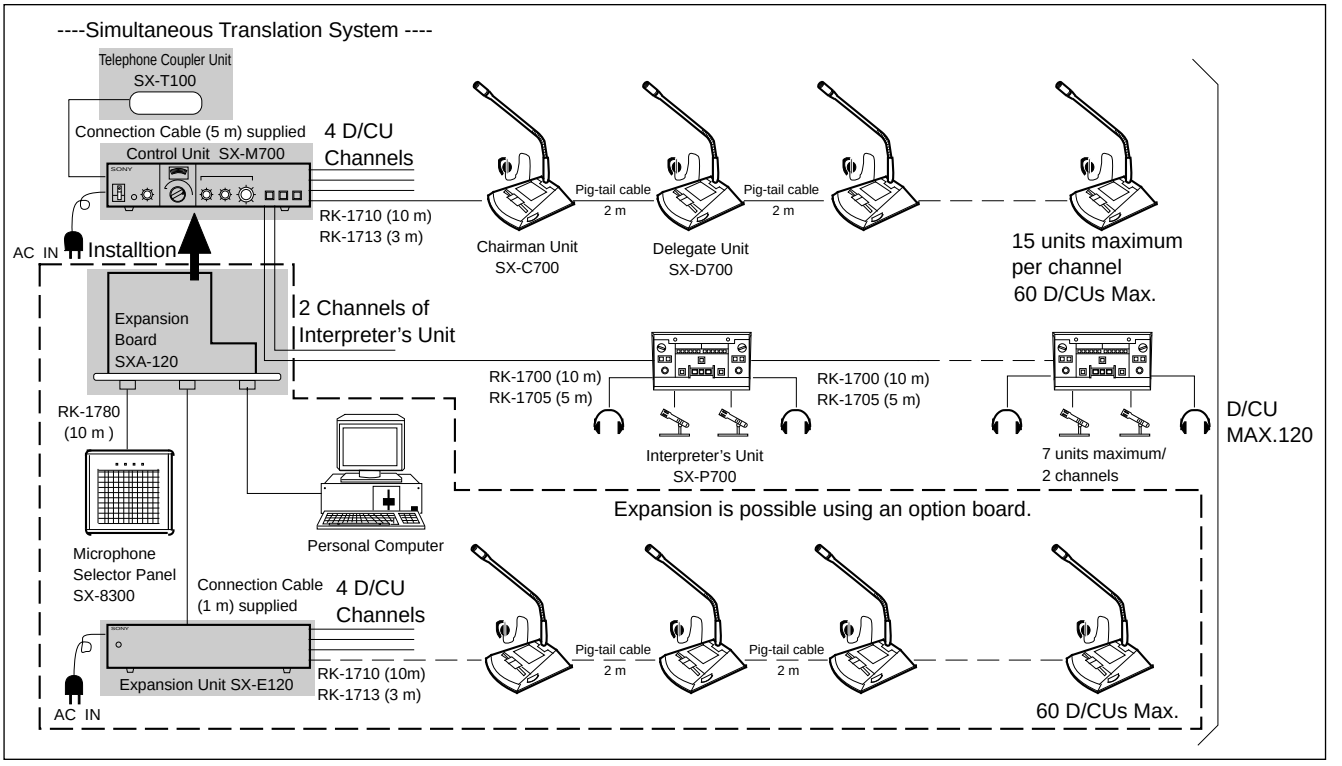
Equipment intended for connection to a 3-wire, grounded neutral power supply, as illustrated above.

A. Probe with shielded lead.
B. Separated and used as clip when measuring currents from one part of equipment to another.

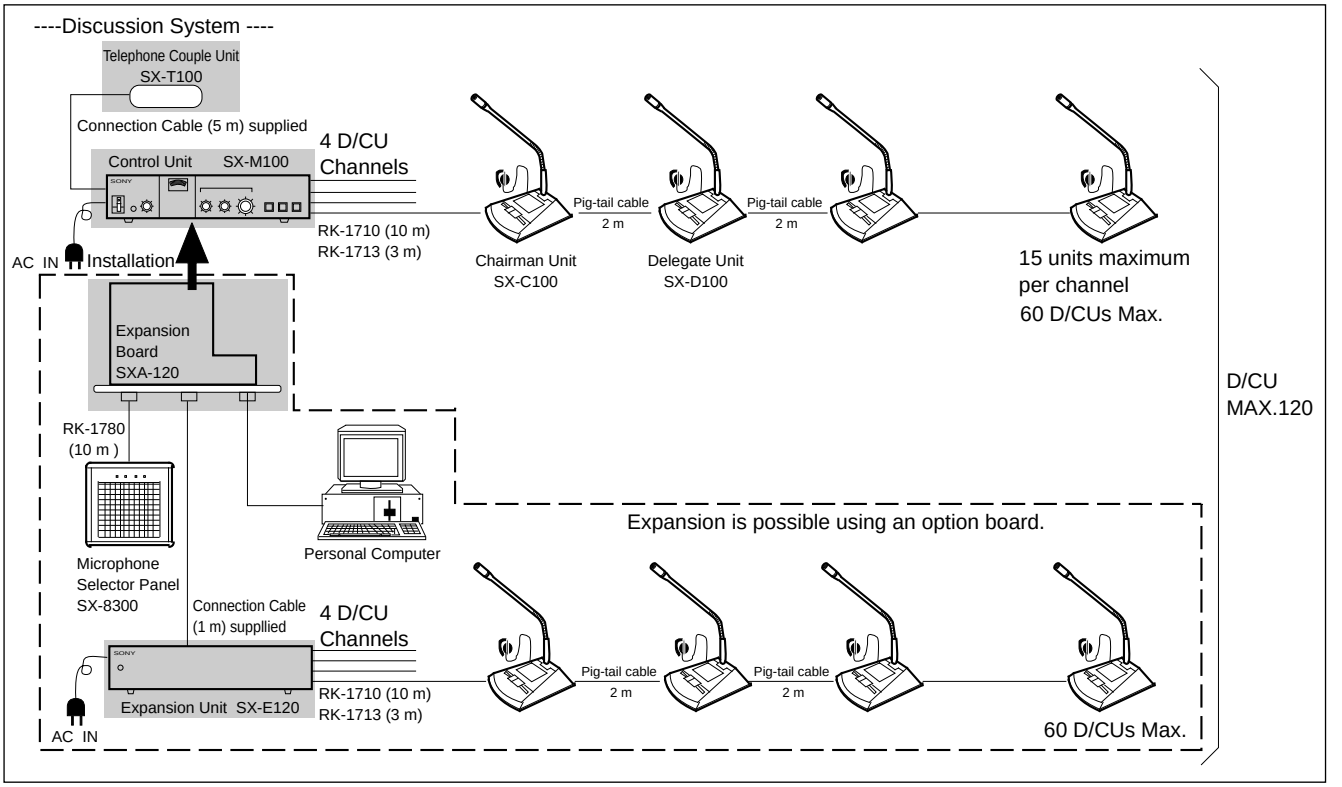
SECTION 3
SYSTEM CONFIGURATION AND CIRCUIT DESCRIPTION

3-1. SYSTEM CONFIGURATION

SX-M700



SX-M100



3-2. CIRCUIT DESCRIPTIONS

3-2-1. Digital Block

SX-M700/M100

The microprocessor on the CPU-181 board controls the microphones of the chairman and all delegate units (D/CU) which are connected to the SX-M700/M100. It also processes the hauling suppression.
Communication of the control information is established by writing and reading to and from the DPRAM.
The I/O port of the DPRAM transfers data of 60 D/CUs in half-duplex mode with the data of 15 D/CUs packed into one I/O block. The data are transferred in time-shared serial data communication, which is periodically controlled by the timing generator.

The digital block supplies the mute signal only to the audio circuitry. This mute signal is used to protect the original (ORG) line from the noise of a D/CU line if all units of the D/CU line have switched off the microphones. The mute signal is output only when all microphones of a line are switched off.

The SLOW signal is created by the switch on the interpreter's unit (IPU). When the SLOW signal is created, the microprocessor issues the blinking command to the chairman's unit.

If the SXA-120 expansion board is installed, the microphone control and hauling suppression processing are carried out by the SXA-120 microprocessor, not by the CPU-181 microprocessor. The communication interface with all D/CUs therefore handles these processings.

SX-E120

The SX-E120 has almost the same circuit configuration as the SX-M700/M100. However, the SX-E120 operates only when the SXA-120 is installed in the SX-M700 or SX-M100 and is connected to the SX-E120.

The SXA-120 microprocessor handles the microphone control and hauling suppression rather than the I/O port of the DPRAM, so the communication interface with all D/CUs handles these processings.

The mute control over the audio signals are exactly the same as the SX-M700/M100.

SXA-120

The SXA-120 (CPU-188 board) can be installed in the SX-M700 as an option.
The SXA-120 microprocessor handles the microphone control and hauling suppression processing of a maximum of 120 D/CU units connected through the TTL communication (9600 bps) with the CPU-181 board of the SX-M700, or the RS-232C communication (9600 bps) with the CPU-181 board of the SX-E120.

The character layout (sheet assignment) on the display, microphone control from the SX-8300 and related hauling suppression processing are carried out by the RS-422A communication (9600 bps) with the microphone control unit SX-8300 (option). The sheet assignment information is saved in the E^2PROM.

The RS-232C terminal (9600 bps) can be connected to a personal computer. (Software is optional.)

The audio signals are passed through the digital block.

The DC 24V power supply in the SX-M700/M100 and the other DC 24V from the SX-E120 are output to the microphone control units. The main power of the SX-E120 is switched on and off by the DC 24V of the SX-M700/M100.

The DC 24V power is supplied to the models SX-S100 and SX-S150 to drive the POWER REMOTE relay.

3-2-2. Audio Block

SX-M700

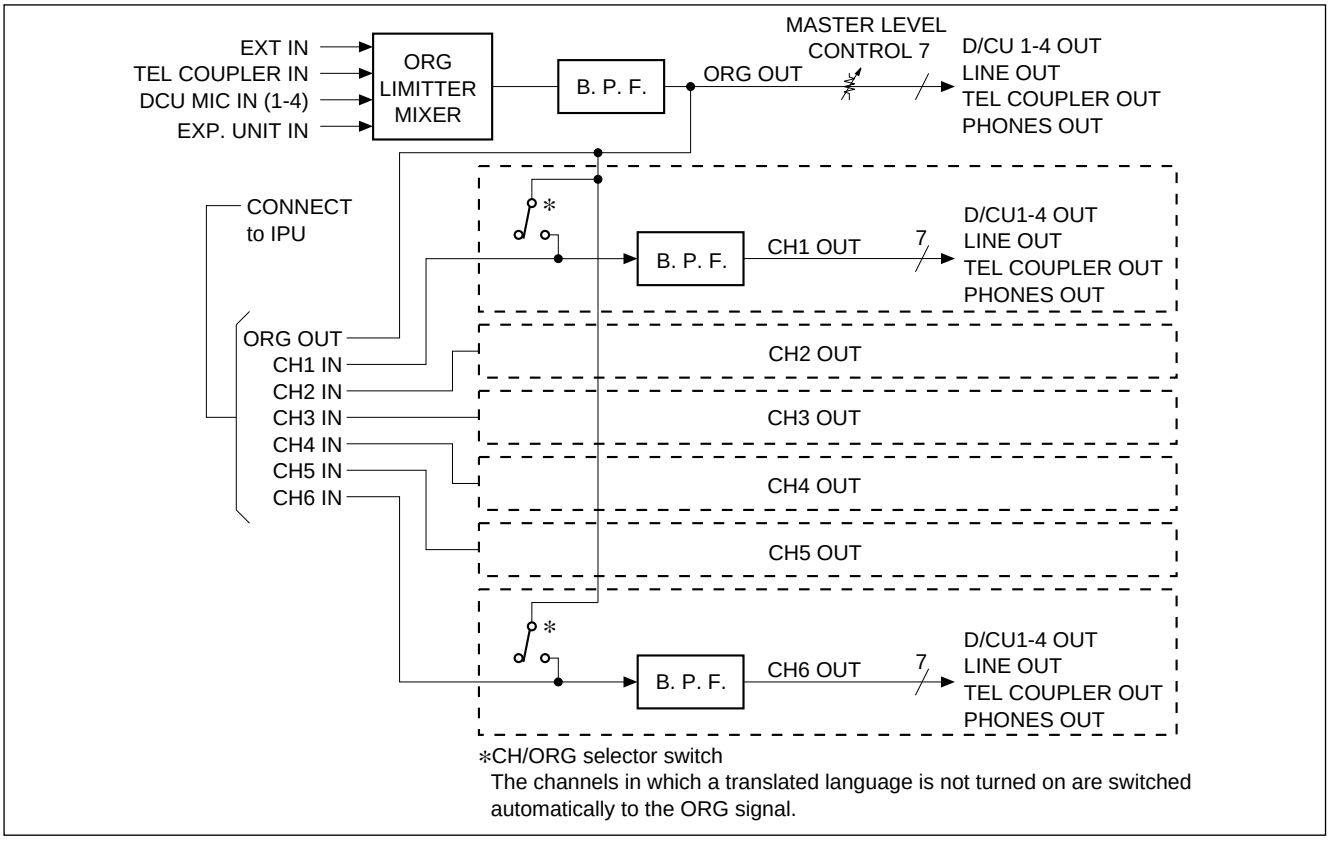
The audio block of the SX-M700 has the following basic functions.

- Receiving the audio signal from chairman and delegate units, the audio block outputs these signals to the simultaneous interpreter's unit as the original language ORG signal.
- The ORG signal and the maximum six languages (CH-1 to CH-6) which are translated by the simultaneous interpreter's units totaling seven channel audio signals are output to the chairman and delegate units from the SX-M700. (See SX-M700 block diagram.)

1. ORG System
   The ORG system receives the following signals:
   - D/CU 1 MIC IN
   - D/CU 2 MIC IN
   - D/CU 3 MIC IN
   - D/CU 4 MIC IN
   - EXT IN 1 MIC/LINE
   - EXT IN 2 MIC/LINE
   - TELEPHONE COUPLER IN
   - Input Audio Signal from Expansion Unit SX-E120

   These input signals are passed through the limiter and mixer, are amplitude-adjusted by the MASTER volume control, passed through a band-pass filter then feed the following nine output terminals:
   - D/CU 1
   - D/CU 2
   - D/CU 3
   - D/CU 4
   - LINE OUT 1
   - LINE OUT 2
   - TELEPHONE COUPLER OUT
   - PHONES OUT
   - ORG Output to Expansion Unit SX-E120
2. IPU System
   The IPU system receives the maximum six translated languages (CH-1 to CH-6) from the interpreter's units and outputs to the following nine output terminals:
   - D/CU 1
   - D/CU 2
   - D/CU 3
   - D/CU 4
   - LINE OUT 1
   - LINE OUT 2
   - TELEPHONE COUPLER OUT
   - PHONES OUT
   - ORG Output to Expansion Unit SX-E120

   The channels in which a translated language is not turned on are switched automatically to the ORG signal.



SX-M700 block diagram

SX-M100

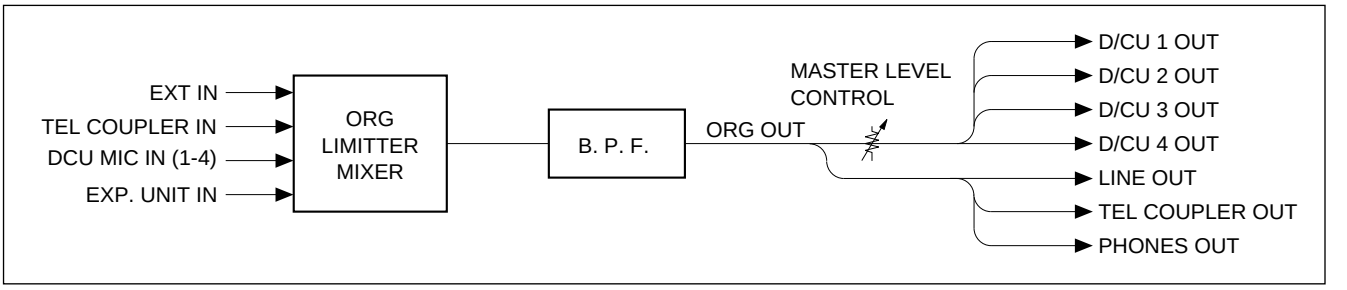
The audio block of the SX-M100 is equivalent to that of the SX-M700 except that the circuit for the IPU (interpreter's unit) is eliminated.
(See SX-M100 block diagram.)

The audio block of the SX-M100 receives the following signals:

- D/CU 1 MIC IN
- D/CU 2 MIC IN
- D/CU 3 MIC IN
- D/CU 4 MIC IN
- EXT IN 1 MIC/LINE
- EXT IN 2 MIC/LINE
- TELEPHONE COUPLER IN
- Input Audio Signal from Expansion Unit SX-E120 (via expansion board SXA-120)

These input signals are passed through the limiter and mixer, amplitude-adjusted by the MASTER volume control, passed through a band-pass filter and feed the following nine output terminals:

- D/CU 1
- D/CU 2
- D/CU 3
- D/CU 4
- LINE OUT 1
- LINE OUT 2
- TELEPHONE COUPLER OUT
- PHONES OUT
- ORG Output to Expansion Unit SX-E120 (via expansion board SXA-120)



SX-M100 block diagram

SX-E120

The audio block of the SX-E120 has the following basic functions.

1. Receiving the audio signal from the chairman and delegate units through the four D/CUs 5 to 8, the audio block outputs these signals to the control units (having the built-in expansion board SXA-120) via the limiter and mixer.
2. Receiving the translated languages (CH-1 to CH-6) from the control units (having the built-in expansion board SXA-120), it outputs these signals to the chairman and delegates unit through the four D/CUs 5 to 8.

SECTION 4
TROUBLESHOOTING

4-1. SYSTEM DIAGNOSTICS

If a trouble occurs while setting up the system, the cause can be approximately determined from the pattern of blinking LEDs on the delegate and chairman units (D/CU).

LED Blinking Pattern

Message	LED Blinking Pattern	Cause of Error
WARNING 1	▫...▫...▫...▫..... 250 ms (Blink 3 seconds)	If the control unit type (built-in simultaneous translation function) and the D/C unit (delegate and chairman unit) type are different, the different D/C units blink three seconds after the main power is turned on.
ERROR 1	▫...▫...▭...▭...▭... (Blinks repeatedly)	When the main power was turned on, the self-check detected that the D/C units could not establish communication. (The ICs in charge of communication cannot 'synchronize with the time-shared' data, or cannot receive the identification address.)
ERROR 2	▫...▫...▫...▫...▭...▭... (Blinks repeatedly)	When the main power was turned on, the self-check detected that the D/C units could not establish communication. (The micro processor is not receiving the self-check data.)
ERROR 3	▫...▫...▫...▫...▫...▫...▭... (Blinks repeatedly)	When the main power was turned on, the self-check detected that the D/C units could not establish communication. (The micro processor is not receiving the self-check data.)
ERROR 4	▫...▫...▭... (Blinks repeatedly)	Communication has aborted without establishing communication while in normal communication mode.

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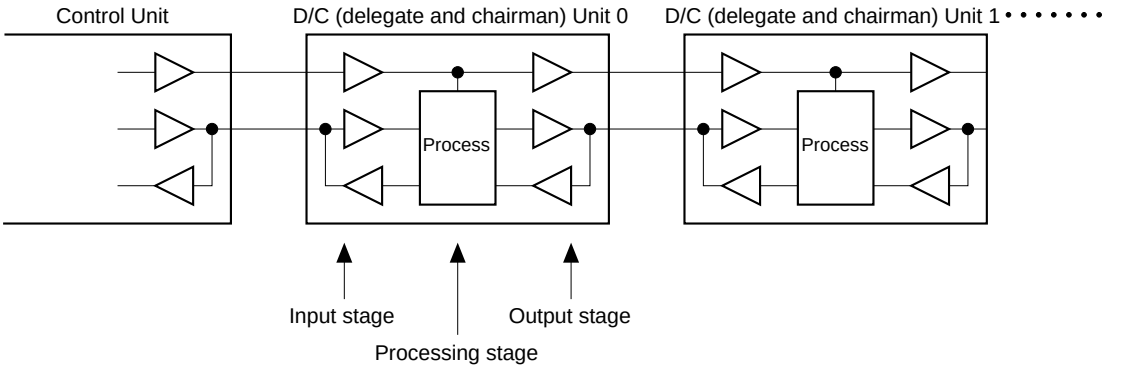
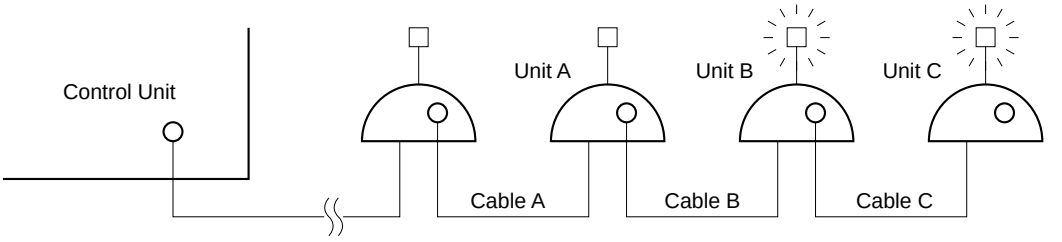
4-2. TROUBLESHOOTING PROCEDURE

The signal flows between the control unit and the D/C units are shown below.



4-2-1. If Error-1 Occurs in Connected Units

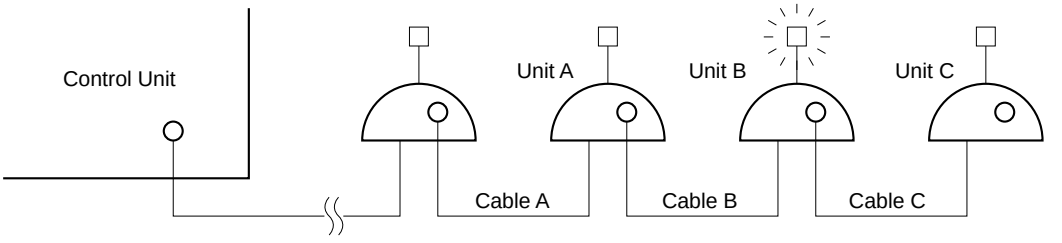


The cause of the trouble may be located in one of the following:

1. Output stage of unit A
2. Cable B is broken
3. Input stage of unit B

Note : A maximum of 15 D/C units can be connected to a control unit. If 16 D/C units are connected, the 16th unit and subsequent units cause Error-1.

4-2-2. If Error-1 to Error-3 Occurs in a Single Unit



The cause of the trouble may be located in one of the following:

Processing stage of unit B

4-2-3. Check Points in Case of Error (Assuming That the Input and Output Stages are Normal)

1. Error-1

- Signal path from the input stage to IC504
- IC504
- Signal path from IC504 to IC505

2. Error-3

- Signal path from IC504 to IC505
- IC505

3. Error-4

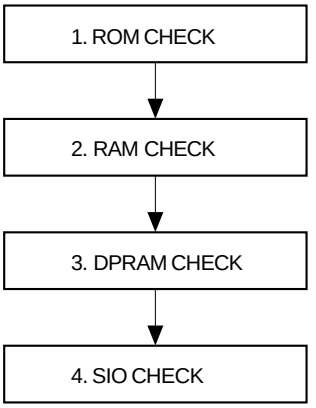
Error-4 may be caused by a software problem. If Error-4 occurs frequently, there may be a hardware problem such as:

- Signal path from IC505 to IC504
- IC505

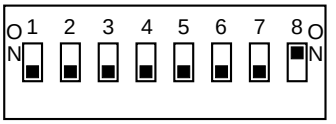
4-3. SELF DIAGNOSTICS OF CPU-181 BOARD

4-3-1. Checking the CPU

Check the CPU in the following order:



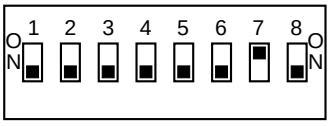
① Bit switch settings



② To enable the SIO check of the SX-M700/M100 to be performed, short pins 1 and 2, and pins 3 and 4 of CN1.
③ Turn on the main power, or press the RESET switch.
④ Perform the above steps 1 through 4. The corresponding LEDs from D2 to D4 turn on. If an error occurs, the bit blinks. If no errors occur, LEDs D2 to D9 turn on.

4-3-2. Checking the Keys and LEDs

① Bit switch settings

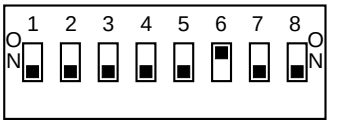


② Connect a ∗IPU which is known to be good.
③ Turn on the main power.
④ Each time a key on the display panel is pressed, the LED toggles between lit and blinking. If the SLOW button of the IPU is pressed, three LEDs turn on.

∗IPU : Interpreter's Unit

4-3-3. Checking the Lines Connecting the Delegate and Chairman Units

① Bit switch settings



② Set bit 1 and bit 2 to check the corresponding line 1 to 4.

BIT 1	BIT 2	Line selected
OFF	OFF	LINE 1
ON	OFF	LINE 2
OFF	ON	LINE 3
ON	ON	LINE 4

③ Connect the ∗D/C units which are known to be good to the selected line.
④ Turn on the main power.
⑤ LED D2 to D5 lights corresponding to lines 1 to 4. If an error occurs, the LED blinks.

∗D/C units : Delegate and Chairman's Units

4-3-4. Factory Default Settings

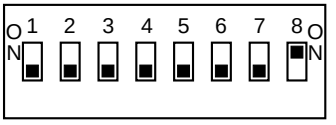
Factory default settings

	BIT 1	BIT 2	Bit 3 to Bit 8
SX-M700	ON	OFF	All OFF
SX-M100	OFF	OFF	
SX-E120	OFF	ON	

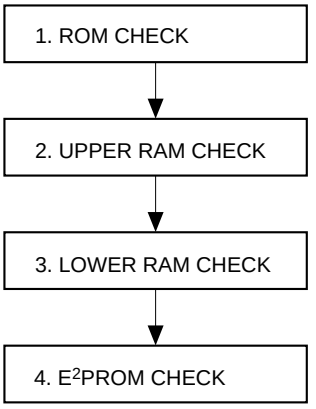
4-4. SELF DIAGNOSTICS OF CPU-188 BOARD (OPTION: SXA-120)

4-4-1. Checking the CPU

① Bit switch settings



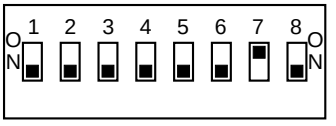
② Supply the power (+5V). If the power is already supplied, press RESET switch S2 to start the check. Check the CPU in the following order:



D1 to D4 turn on as the above steps proceed. If an error occurs, D1 to D4 blink and the check terminates. If no errors occur, LEDs D1 to D8 turn on.

4-4-2. Checking the SIO

① Bit switch settings



② Set bit 1 and 2 to check the corresponding port 0 to 3 as follows:

BIT 1	BIT 2	Port Selected
OFF	OFF	Port 0
ON	OFF	Port 1
OFF	ON	Port 2
ON	ON	Port 3

③ Short the input and output of the port to be checked.

Port 0	CN4 pin 1	◄►	CN4 pin 2
Port 1	CN2 pin 17	◄►	CN2 pin 19
Port 2	D-sub, 9 pin (female pin 3)	◄►	D-sub, 9 pin (female pin 4)
	D-sub, 9 pin (female pin 8)	◄►	D-sub, 9 pin (female pin 9)
Port 3	D-sub, 9 pin (male pin 2)	◄►	D-sub, 9 pin (male pin 3)
	D-sub, 9 pin (male pin 4)	◄►	D-sub, 9 pin (male pin 6)
	D-sub, 9 pin (male pin 7)	◄►	D-sub, 9 pin (male pin 8)

④ Supply the power (+5V). If the power is already supplied, press RESET switch S2 to start the check.

⑤ If no errors occur, LEDs D1 to D4 corresponding to ports 0 to 3 turn on. If an error occurs, the LED blinks.

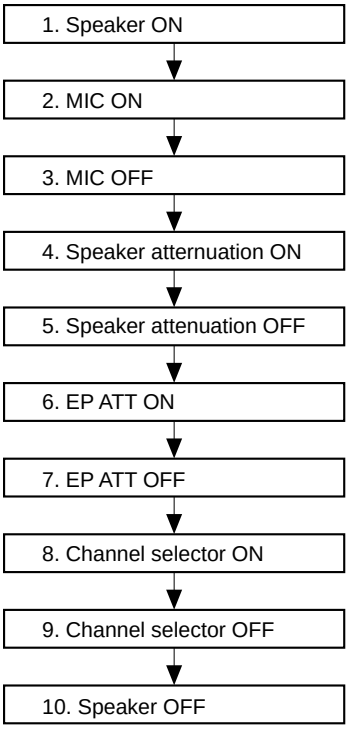
4-4-3. Factory Default Settings

The following information is displayed on the LEDs as lower significant bit settings. Check the factory default settings when installing the SX-M700 and SX-M100 on site.

BIT 1	BIT 2	Settings and Display
ON	OFF	Communication with SX-M700/M100 CPU is OK D8 turns on
		Communication with SX-E120 CPU is OK D7 turns on
		Communication with SX-8300 CPU is OK D6 turns on
OFF	OFF	Number of all D/C units connected to the SX-M700 or M100+SX-E120

4-5. SELF DIAGNOSTICS OF SX-C700/ C100/D700/D100

① Short the SL5 and supply +24 V.
② Each time the MIC ON/OFF button is pressed, the operation of the audio circuit advances one step as shown below.



The respective control system can be checked using a single D/C unit by observing the results of operating the above sequence.

4-6. SX-T100 CHECK ITEMS

After completing repair, check the following:

1. Supply +24 V to pin 3 of the input/output 6-pin connector. Connect pin 4 to GND. Connect the input/output 6-pin connector to the conference system and turn on the main power.
2. Supply an audio signal of 1 kHz at −10 dBs between pin 1 and pin 2 of the input/output 6-pin connector. Confirm that the speaker emits an audio signal.
   (pin 1: HOT)
3. Connect an audio meter of −10 dBs range between pin 5 and pin 6 of the input/output 6-pin connector. Speak into the microphone and confirm that the meter pointer deflects.
   (pin 5: HOT)

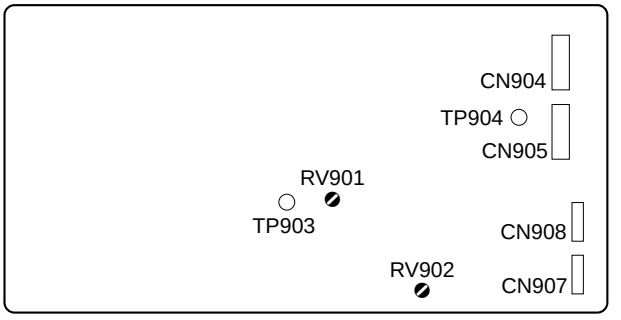
SECTION 5
ELECTRICAL ALIGNMENT

5-1. REQUIRED EQUIPMENT

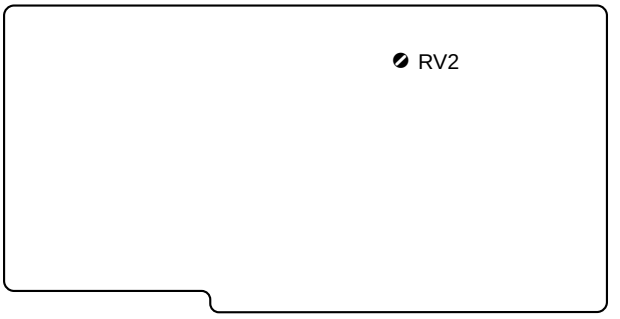
- Audio Signal Generator : HP 8904 or equivalent
- Digital Voltmeter : Advantest TR6845 or equivalent
- Frequency Counter : Advantest TR582AK or equivalent

5-2. LOCATIONS OF PARTS (SIDE A)

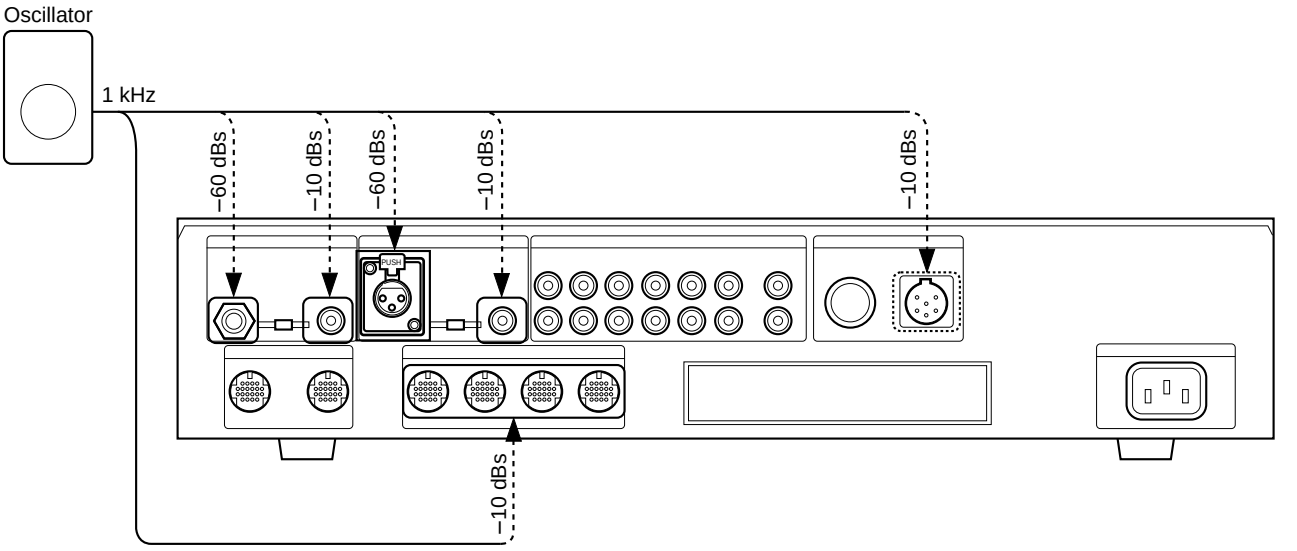
PS-364 Board



HP-65 Board



5-3. CONNECTING DIAGRAM

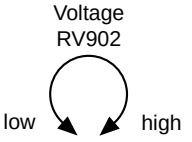


- Connect 1 kHz audio signal to any of EXT IN-1 MIC, EXT IN-2 MIC, EXT IN-1 LINE IN, EXT IN-2 LINE IN, pin-10 of DELEGATE'S/CHAIRMAN'S UNIT 1 to 4, or pin-1 of TELEPHONE COUPLER.
  (Input level is about −60 dBs when connecting to EXT IN-1/2, or about −10 dBs when connecting to other inputs.)

5-4. PS-364 BOARD, OSCILLATING FREQUENCY ADJUSTMENT

Conditions for adjustment	Specifications	Adjustment point
• Set RV901 (D-3) on the PS-364 board to mechanical center. • Connect a frequency counter to the measurement point. • Turn on the main power.	• Measurement point: TP903 (D-4)/PS-364 board • Adjust RV901 so that the switching frequency satisfies the specification. Frequency RV901 low ↻ high **Switching frequency : 100 ±1 kHz**	⊘ RV901 (D-3)/PS-364 Board

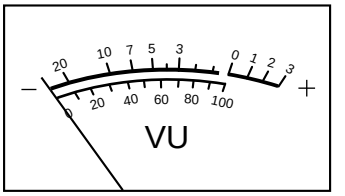
5-5. OUTPUT VOLTAGE (PS-364 BOARD) ADJUSTMENT

Conditions for adjustment	Specifications	Adjustment point
• Set RV902 (F-5) on the PS-364 board to mechanical center. • Connect a voltmeter to the measurement point. • Turn on the main power.	• Measurement point : TP904 (F-2)/PS-364 board • Adjust RV902 so that the output voltage satisfies the specification.  **DC output voltage: 24 V±0.5 V**	⊘ RV902 (F-5)/PS-364 Board

5-6. OUTPUT VOLTAGE (PS-364 BOARD) CHECK

Conditions for adjustment	Specifications	Adjustment point
• Turn on the main power.	CN904, CN905 Specification : +24 V CN907 **Pin No.** / **Specification**: 1 / –5 V; 2 / GND; 3 / +5 V; 4 / N.C; 5 / +24V CN908 **Pin No.** / **Specification**: 1 / GND; 2 / GND; 3 / +5 V; 4 / +5 V Confirm that the output voltage at the respective pins of CN904, CN905, CN907 and CN908 satisfies the specification.	

5-7. VU METER ADJUSTMENT

Conditions for adjustment	Specifications	Adjustment point
STEP-1 • Set the MIC/LINE 1 or MIC/LINE 2 knob on the front panel to the scale “7” position.	LINE OUT (ORG) connector/rear panel Output at the connector= –10 dB	⊘ Level adjustment knob MASTER / front panel
STEP-2	VU meter/front panel  Make adjustment so that the meter pointer stays at 0 VU.	⊘ RV2/HP-65 Board

SECTION 6
SEMICONDUCTOR PIN ASSIGNMENTS

Semiconductors of which functions are equivalent are described here. For parts replacement, refer to the section of Spare Parts in this manual. The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

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RB110C 6-2
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RD6.2M-B 6-2
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MC74HC4316N 6-7
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NJM7806FA 6-8
PST520C-2 6-8
S-80741AL 6-8
SN74HC04AN 6-8
SN74HC08AN 6-8
SN74HC138ANS 6-9
SN74HC14AN 6-9
SN74HC14ANS 6-9
SN74HC163AN 6-9
SN74HC164AN 6-9
SN74HC166AN 6-9
SN74HC20ANS 6-10
SN74HC244ANS 6-10
SN74HC273AN 6-10
SN74HC32ANS 6-10
SN74HC541AN 6-10
SN74HC74AN 6-10
SN74HCT245AN 6-8
TC74AC04F 6-8
TC74AC163F 6-9
TC74AC32F 6-10
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UPC1093J 6-13
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UPC4572C 6-13

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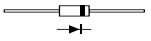
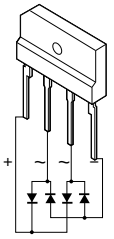
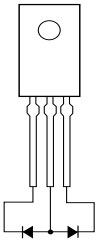


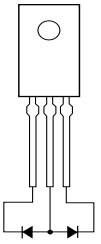
1SS119
EU2Z
RB100A



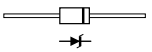
D4SB60L
RBV-406H



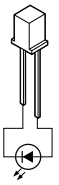
D8LC40



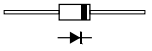
D8LCA20



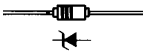
ERB81-004
ES1F



GL8HD22;RED

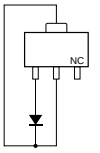


MA7120
MA7270
RD13ESB1
RD16EBS1
RD6.2ESB2
RD6.2FB2
RY-24



MA7200

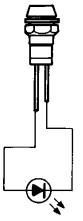
-TOP VIEW-



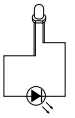
RB110C

-TOP VIEW-

RD6.2M-B

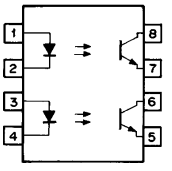


SDB505-GD

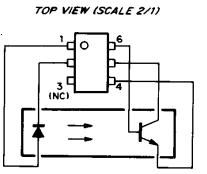


SEL2311G;GREEN

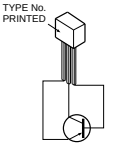
TLR211;RED



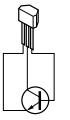
TLP521-2



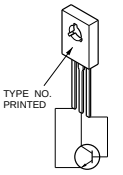
TLP733F



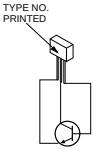
2SA1048
2SA1175



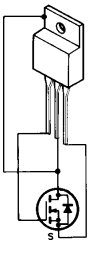
2SC2458



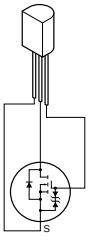
2SC2688



2SC2785
2SD1020
2SD1021



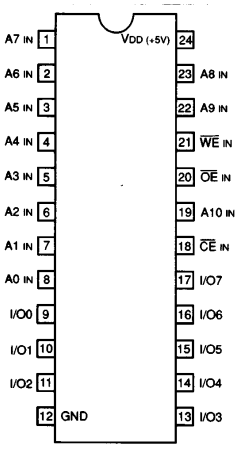
2SK792

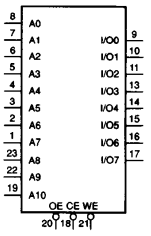


2SK975

AT28C16-15SC(ATMEL)

C-MOS 16K (2Kx8)-BIT E² PROM
– TOP VIEW –



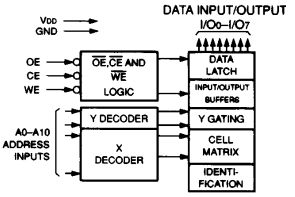


INPUT

A0–A10	; ADDRESSES
$\overline{CE}$	; CHIP ENABLE
$\overline{OE}$	; OUTPUT ENABLE
$\overline{WE}$	; WRITE ENABLE

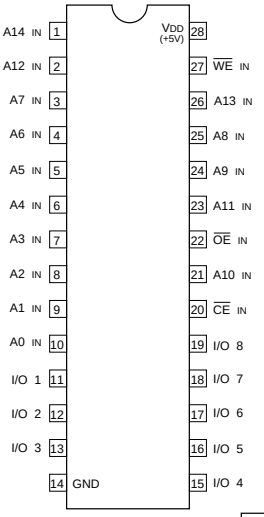
INPUT/OUTPUT

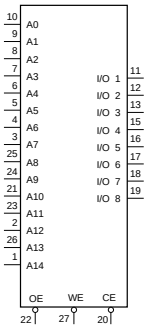
I/O0–I/O7 ; DATA



CXK58257AP-10L(SONY)
CXK58257BM-10LL(SONY)

C-MOS 256K (32,768×8)-BIT STATIC RAM
–TOP VIEW–





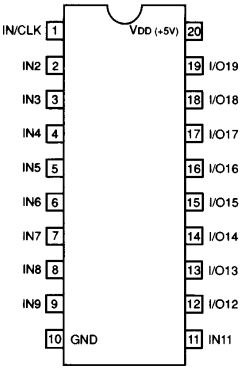
A0-A14	; ADDRESS INPUTS
$\overline{CE}$	; CHIP ENABLE INPUT
I/O1-I/O8	; DATA INPUTS/OUTPUTS
$\overline{OE}$	; OUTPUT ENABLE INPUT
$\overline{WE}$	; WRITE ENABLE INPUT

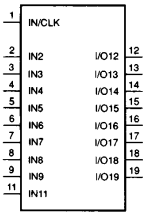
CE	OE	WE	MODE	I/O TERMINAL
1	×	×	NOT SELECT	HIGH IMPEDANCE
0	1	1	OUTPUT DISABLE	HIGH IMPEDANCE
0	0	1	READ	OUTPUT DATA
0	×	0	WRITE	INPUT DATA

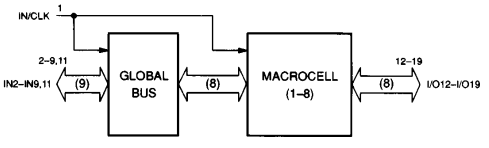
0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE

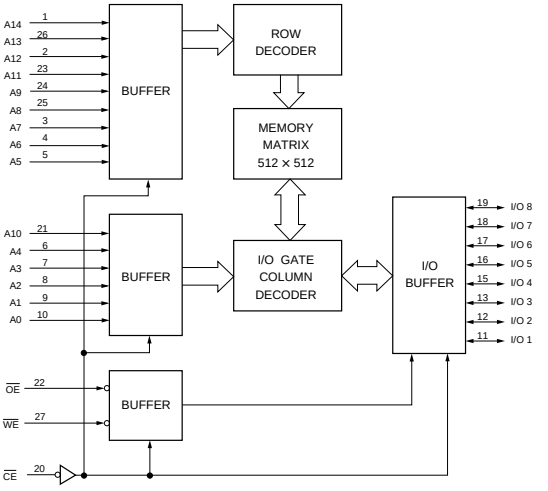
EP330PC-15(ALTERA)

C-MOS 8-MACROCELL EPLD
– TOP VIEW –



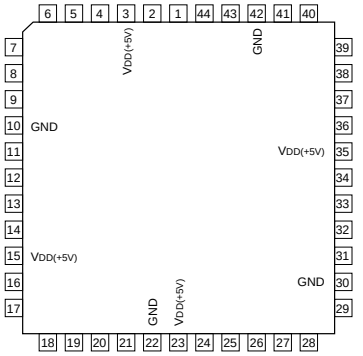






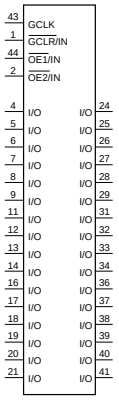
EPM7032LC44-15(ALTERA)

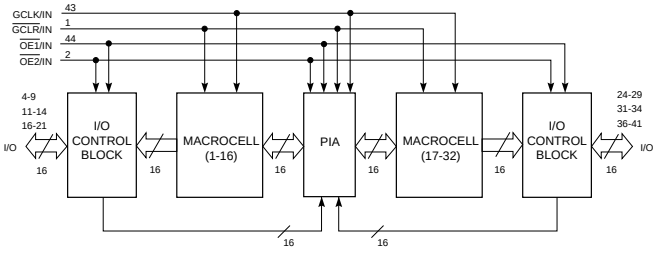
C-MOS ERASABLE PLD
—TOP VIEW—



(VDD = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	$\overline{GCLR}$/IN	17	I/O	I/O	33	I/O	I/O
2	I	$\overline{OE2}$/IN	18	I/O	I/O	34	I/O	I/O
3	—	VDD	19	I/O	I/O	35	—	VDD
4	I/O	I/O	20	I/O	I/O	36	I/O	I/O
5	I/O	I/O	21	I/O	I/O	37	I/O	I/O
6	I/O	I/O	22	—	GND	38	I/O	I/O
7	I/O	I/O	23	—	VDD	39	I/O	I/O
8	I/O	I/O	24	I/O	I/O	40	I/O	I/O
9	I/O	I/O	25	I/O	I/O	41	I/O	I/O
10	—	GND	26	I/O	I/O	42	—	GND
11	I/O	I/O	27	I/O	I/O	43	I	GCLK/IN
12	I/O	I/O	28	I/O	I/O	44	I	$\overline{OE1}$/IN
13	I/O	I/O	29	I/O	I/O			
14	I/O	I/O	30	—	GND			
15	—	VDD	31	I/O	I/O			
16	I/O	I/O	32	I/O	I/O			

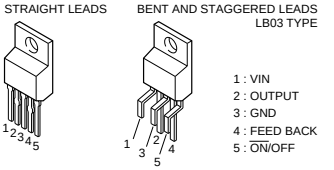




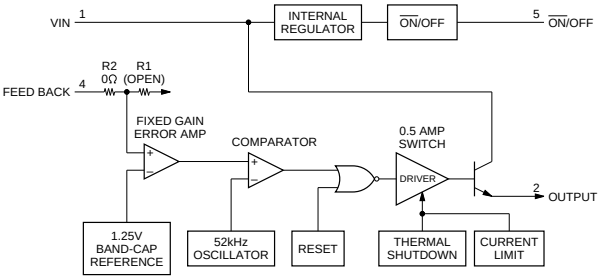
*ABOVE DIAGRAM SHOWS CONDITIONS BEFORE PROGRAMMING

LM2575T-ADJ(NSC)

STEP-DOWN TYPE VOLTAGE REGULATOR
- SIDE VIEW -

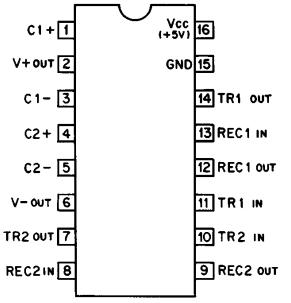


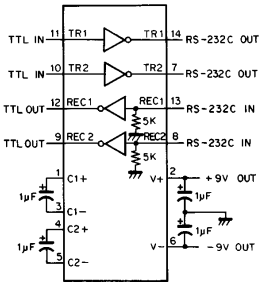
SERIES	OUTPUT CURRENT
LM2575 LM2575HV	1A
LM2576 LM2576HV	3A



LT1081CN(LINEAR TECHNOLOGY)

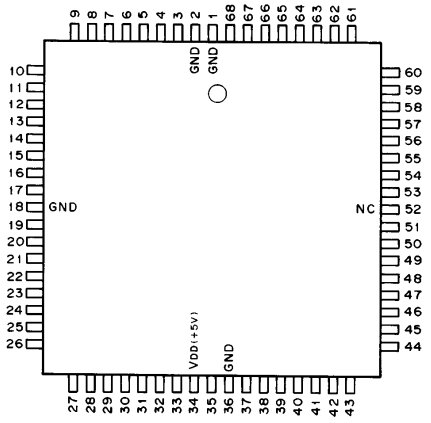
RS-232 DRIVER/RECEIVER
– TOP VIEW –



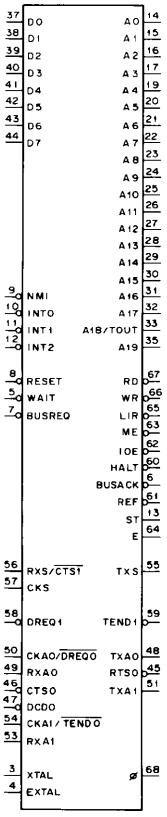


HD64180ZRCP8(HITACHI)

C-MOS 8-BIT MICROPROCESSOR
– TOP VIEW –



PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	–	GND	24	O	A9	47	I	DCD0
2	–	GND	25	O	A10	48	O	TXA0
3	I	XTAL	26	O	A11	49	I	RXA0
4	I	EXTAL	27	O	A12	50	I/O	CKA0/$\overline{\text{DREQ0}}$
5	I	WAIT	28	O	A13	51	O	TXA1
6	O	BUSACK	29	O	A14	52	–	NC
7	I	BUSREQ	30	O	A15	53	I	RXA1
8	I	RESET	31	O	A16	54	I/O	CKA1/$\overline{\text{TEND0}}$
9	I	NMI	32	O	A17	55	O	$\overline{\text{TXS}}$
10	I	INT0	33	O	A18/TOUT	56	I	RXS/$\overline{\text{CTS1}}$
11	I	INT1	34	–	V_{DD} (+5V)	57	I/O	CKS
12	I	INT2	35	O	A19	58	I	DREQ1
13	O	ST	36	–	GND	59	O	TEND1
14	O	A0	37	I/O	D0	60	O	HALT
15	O	A1	38	I/O	D1	61	O	REF
16	O	A2	39	I/O	D2	62	O	IOE
17	O	A3	40	I/O	D3	63	O	ME
18	–	GND	41	I/O	D4	64	O	E
19	O	A4	42	I/O	D5	65	O	LIR
20	O	A5	43	I/O	D6	66	O	WR
21	O	A6	44	I/O	D7	67	O	RD
22	O	A7	45	O	RTS0	68	O	ϕ
23	O	A8	46	I	CTS0			



INPUT

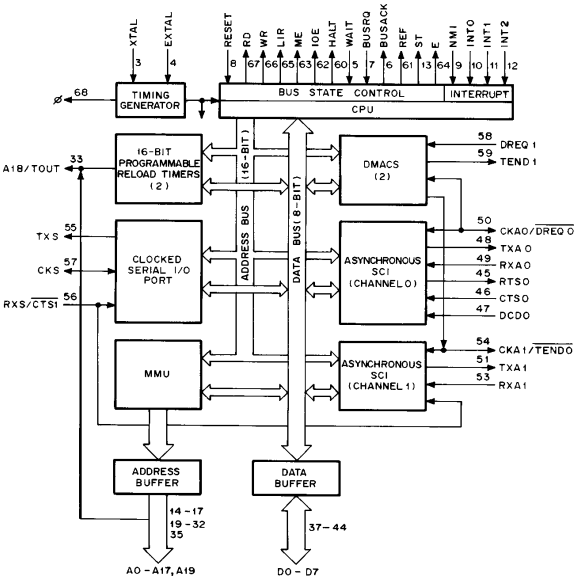
BUSREQ	; BUS REQUEST
CTS0	; CLEAR TO SEND FOR ASYNCHRONOUS SCI CHANNEL 0
DCD0	; DATA CARRIER DETECT FOR ASYNCHRONOUS SCI CHANNEL 1
DREQ1	; DMA REQUEST FOR CHANNEL 1
EXTAL	; EXTERNAL CLOCK INPUT/CRYSTAL CONNECTION
INT0, 1, 2	; INTERRUPT 0, 1, 2
NMI	; NON-MASKABLE INTERRUPT
RESET	; RESET
RXA0, 1	; RECEIVE DATA FOR ASYNCHRONOUS SCI CHANNEL 0, 1
RXS/$\overline{\text{CTS1}}$	; RECEIVE DATA FOR SERIAL I/O PORT/CLEAR TO SEND FOR ASYNCHRONOUS SCI CHANNEL 1
WAIT	; READ/WRITE CYCLE EXPANDER FOR MEMORY OR I/O
XTAL	; CRYSTAL CONNECTION

OUTPUT

A0 – A17, A19	; ADDRESS BUS
A18/TOU	; ADDRESS/TIMER OUT
BUSACK	; BUS ACKNOWLEDGE
E	; ENABLE
HALT	; CPU MODE INDICATION
IOE	; I/O ENABLE
LIR	; LOAD INSTRUCTION REGISTER
ME	; MEMORY ENABLE
RD	; READ
REF	; REFRESH
RTS0	; REQUEST TO SEND FOR ASYNCHRONOUS SCI CHANNEL 0
ST	; STATUS
TEND1	; TRANSFER END FOR CHANNEL 1
TXA0, 1	; TRANSFER DATA FOR ASYNCHRONOUS SCI CHANNEL 0, 1
TXS	; TRANSFER DATA FOR SERIAL I/O PORT
WR	; WRITE
ϕ	; SYSTEM CLOCK

INPUT/OUTPUT

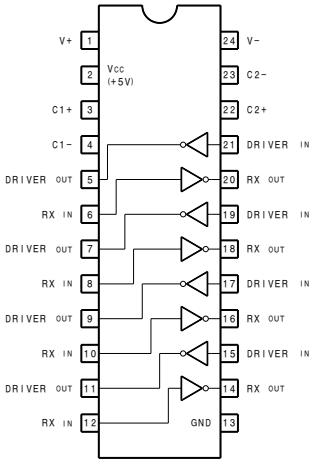
CKA0/$\overline{\text{DREQ0}}$	; CLOCK FOR ASYNCHRONOUS SCI CHANNEL 0/ DMA REQUEST FOR CHANNEL 0
CKA1/$\overline{\text{TEND0}}$	; CLOCK FOR ASYNCHRONOUS SCI CHANNEL 1/ TRANSFER END FOR CHANNEL 0
CKS	; CLOCK FOR SERIAL I/O PORT
D0 – D7	; DATA BUS



LT1134ACSW(LINEAR TECH)

RS232C DRIVERS/RECEIVERS

-TOP VIEW-

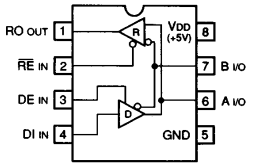


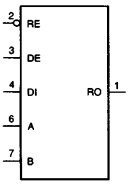

```
INPUT
  DRIVER IN        ;RS-232C DRIVER INPUTS
  RX IN            ;RECEIVER INPUTS
OUTPUT
  DRIVER OUT       ;RS-232C DRIVER OUTPUTS
  RX OUT           ;RECEIVER OUTPUTS TTL/CMOS VOLTAGE LEVELS

  C1+, C1-, C2+, C2-  ;EXTERNAL CAPACITORS
  V+               ;POSITIVE SUPPLY (RS-232C DRIVERS)
  V-               ;NEGATIVE SUPPLY (RS-232C DRIVERS)
```

LTC485CN8(LINEAR TECNOLOGY)

C-MOS R485 TRANCEIVER
– TOP VIEW –





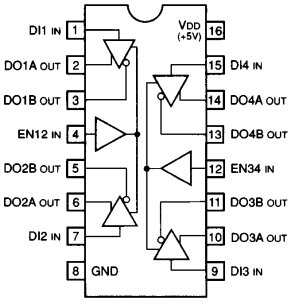
INPUT
DE ; DRIVER ENABLE
DI ; DRIVER
$\overline{RE}$; RECEIVER ENABLE

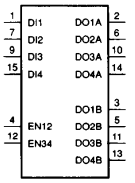
OUTPUT
RO ; RECEIVER

INPUT/OUTPUT
A ; RECEIVER INPUT (+)/DRIVER OUTPUT (+)
B ; RECEIVER INPUT (–)/DRIVER OUTPUT (–)

LTC487CN(LINEAR TECHNOLGY)

C-MOS QUAD DIFFERENTIEL LINE DRIVER
– TOP VIEW –



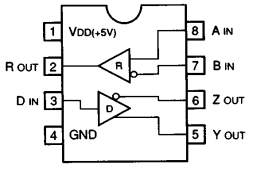


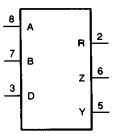
INPUT
DI1–DI4 ; DRIVER
EN12 ; DRIVER 1 AND 2 ENABLE
EN34 ; DRIVER 3 AND 4 ENABLE

OUTPUT
DO1A–DO4A ; DRIVER (+)
DO1B–DO4B ; DRIVER (–)

LTC490CS8(LINEAR TECHNOLOGY)

C-MOS DIFFERENTIAL DRIVER/RECEIVER
– TOP VIEW –



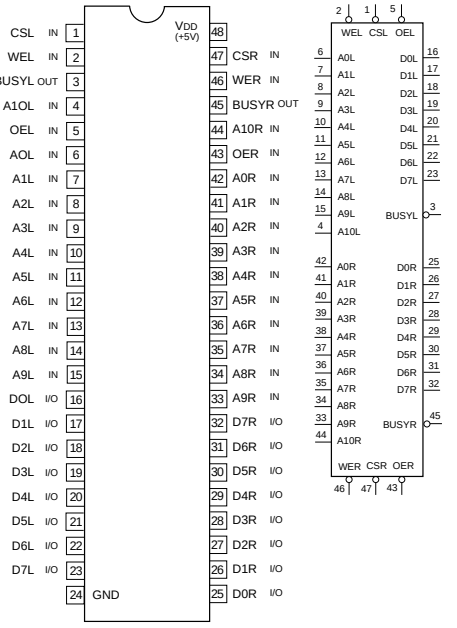


INPUT
A ; RECEIVER (+)
B ; RECEIVER (–)
D ; DRIVER

OUTPUT
R ; RECEIVER
Y ; DRIVER (+)
Z ; DRIVER (–)

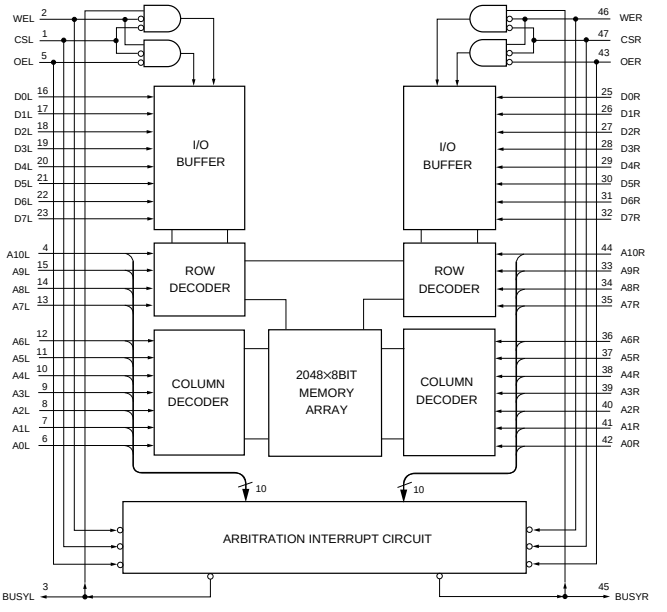
MB8422-12LP(FUJITSU)

C-MOS 16K (2048×8)-BIT DUAL PORT STATIC RAM
-TOP VIEW-



LEFT PORT
AOL–A10L ; ADDRESS INPUTS
BUSYL ; BUSY OUTPUT
CSL ; CHIP SELECT INPUT
DOL–D7L ; DATA INPUTS/OUTPUTS
OEL ; OUTPUT ENABLE INPUT
WEL ; WRITE ENABLE INPUT

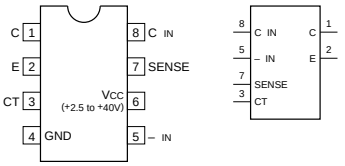
RIGHT PORT
AOR–A10R ; ADDRESS INPUTS
BUSYR ; BUSY OUTPUT
CSR ; CHIP SELECT INPUT
DOR–D7R ; DATA INPUTS/OUTPUTS
OER ; OUTPUT ENABLE INPUT
WER ; WRITE ENABLE INPUT



MC34063AP1(MOTOROLA)

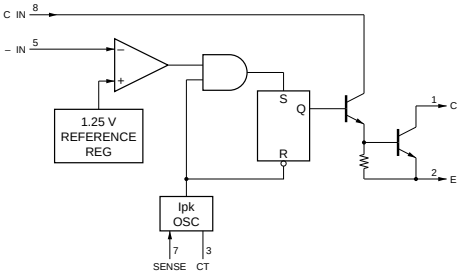
DC-DC CONVERTER CONTROLLER

-TOP VIEW-



INPUT
C IN ; DRIVE COLLECTOR
CT ; TIMING CAPACITOR
– IN ; COMPARATOR INVERTING
SENSE ; I PEAK SENSE

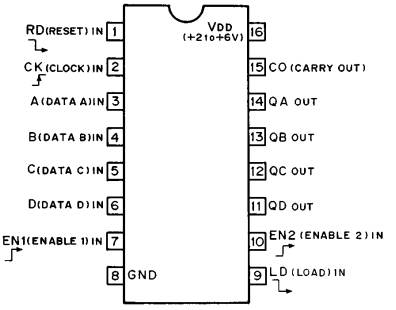
OUTPUT
C ; SWITCH COLLECTOR
E ; SWITCH EMITTER

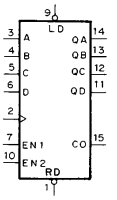


MC74HC162N(MOTOROLA)

C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BCD COUNTER

– TOP VIEW –





MODE SELECTION

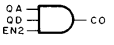
INPUTS					MODE
CK	RD	LD	EN1	EN2	
↓	0	X	X	X	RESET
↓	1	0	X	X	PRESET
↓	1	1	0	X	NO COUNT
↓	1	1	X	0	NO COUNT
↓	1	1	1	1	COUNT

COUNT SEQUENCE

COUNT	OUTPUTS				
	QD	QC	QB	QA	CO
0	0	0	0	0	0
1	0	0	0	1	0
2	0	0	1	0	0
3	0	0	1	1	0
4	0	1	0	0	0
5	0	1	0	1	0
6	0	1	1	0	0
7	0	1	1	1	0
8	1	0	0	0	0
9	1	0	0	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

CARRY OUTPUT "CO"

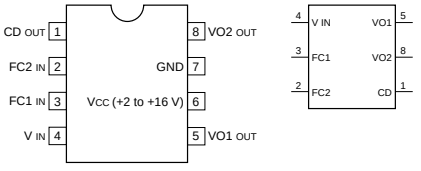


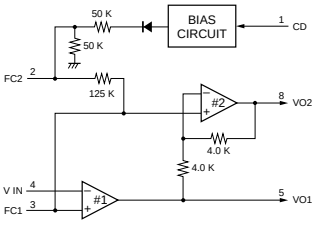
CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "9".

MC34119P(MOTOROLA)

LOW POWER AUDIO AMPLIFIER

—TOP VIEW—





INPUT
CD ; CHIP DISABLE
V IN ; SIGNAL

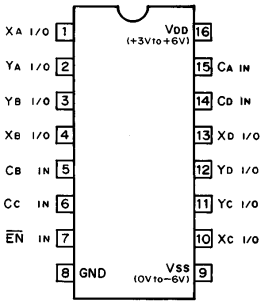
OUTPUT
VO1 ; SIGNAL (–)
VO2 ; SIGNAL (+)

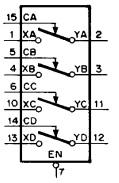
OTHER
FC1–FC2 ; BY–PASS CAPACITOR

MC74HC4316N(MOTOROLA)

C-MOS QUAD ANALOG SWITCH

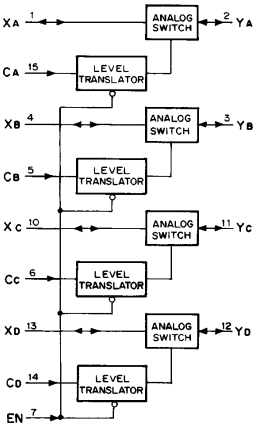
– TOP VIEW –





INPUTS		STATE OF ANALOG SWITCH
$\overline{EN}$	C	
0	1	ON
0	0	OFF
1	X	OFF

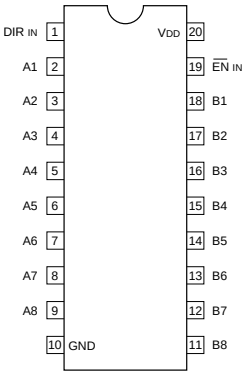
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

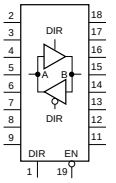


CA–CD ; ON/OFF CONTROL INPUT
$\overline{EN}$; ENABLE INPUT
XA–XD ; ANALOG SIGNAL I/O
YA–YD ; ANALOG SIGNAL I/O

MC74HCT245N(MOTOROLA)
SN74HCT245AN(TI)

C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS
-TOP VIEW-



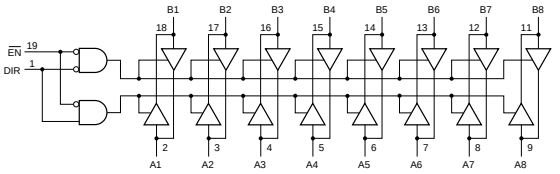


$\overline{EN}$	DIR	OPERATION
0	0	B to A
0	1	A to B
1	X	HI-Z

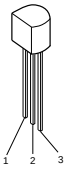
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

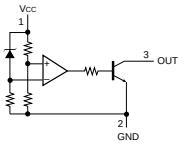
NOTE:

TYPE	VDD
74HC	+2 to +6V
74ABT 74ACT 74BCT 74HCT	+4.5 to +5.5V
74AC 74VHC	+2 to +5.5V
74LCX	+2 to +3.6V
74LVT	+2.7 to +3.6V



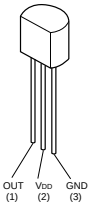
PST520C(MITSUMI)
SYSTEM RESETTING DEVICE

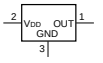




REF. ; REFERENCE VOLTAGE

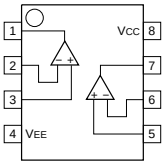
S-80741AL(SEIKO I&E)
C-MOS VOLTAGE DETECTOR





NJM4556AD(JRC)
NJM4580D-D(JRC)

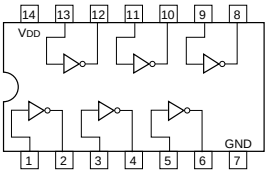
DUAL OPERATIONAL AMPLIFIERS
(DUAL-SUPPLY TYPE)
–TOP VIEW–

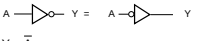


TYPE	VCC	VEE
062/072/082/4556A/ M5218/BA15218/ 33178/34182 TYPES	+2 to +16V	−2 to −16V
4580 TYPE	+2 to +18V	−2 to −18V
5532 TYPE	+3 to +20V	−3 to −20V
CXA1297 TYPE	+5 to +12V	−5 to −12V
M5219/M5220 TYPES	+5 to +22.5V	−5 to −22.5V
NJM2100 TYPE	+1 to +3.5V	−1 to −3.5V
OP-297 TYPE	+2 to +20V	−2 to −20V
OTHERS	+5 to +16V	−5 to −16V

SN74HC04AN(TI)
TC74AC04F(TOSHIBA)
TC74HC04AP(TOSHIBA)

C-MOS HEX INVERTERS
-TOP VIEW-





$Y = \overline{A}$

A	Y
0	1
1	0

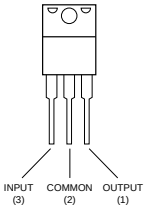
0 ; LOW LEVEL
1 ; HIGH LEVEL

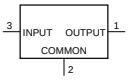
NOTE:

TYPE	VDD
74AC/74VHC/74VHCT	+2 to +5.5V
74ACT/74HCT	+4.5 to +5.5V
74LCX	+2 to +3.6V
OTHER TYPE	+2 to +6V

NJM7806FA(JRC)
UPC24M06HF(NEC)

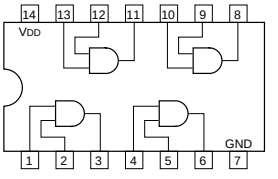
POSITIVE VOLTAGE REGULATOR
—FRONT VIEW—

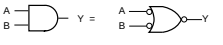




SN74HC08AN(TI)

C-MOS QUAD 2-INPUT AND GATES
—TOP VIEW—





$Y = A \cdot B = \overline{\overline{A} + \overline{B}}$

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL

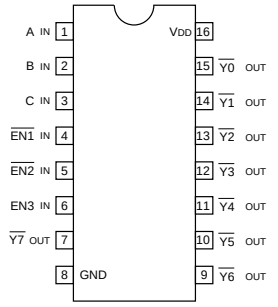
NOTE:

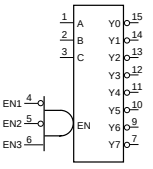
TYPE	VDD
TC74AC08 TYPE MC74ACT08M	+2 to +5.5V
TC40H	+2 to +8V
OTHER TYPES	+2 to +6V

SN74HC138ANS(TI)

C-MOS 3-TO-8 LINE DECODER / DEMULTIPLEXER

—TOP VIEW—





NOTE:

TYPE	VDD
74HCT138 TYPE	+5V
74ACT138 TYPE	+4.5 to +5.5V
TC74AC138 TYPE TC74VHC138	+2 to +5.5V
OTHER TYPES	+2 to +6V

INPUTS				OUTPUTS							
EN	C	B	A	Y7	Y6	Y5	Y4	Y3	Y2	Y1	Y0
0	X	X	X	1	1	1	1	1	1	1	1
1	0	0	0	1	1	1	1	1	1	1	0
1	0	0	1	1	1	1	1	1	1	0	1
1	0	1	0	1	1	1	1	1	0	1	1
1	0	1	1	1	1	1	1	0	1	1	1
1	1	0	0	1	1	1	0	1	1	1	1
1	1	0	1	1	1	1	0	1	1	1	1
1	1	1	0	1	0	1	1	1	1	1	1
1	1	1	1	0	1	1	1	1	1	1	1

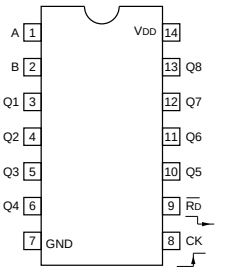
EN = $\overline{EN1} \cdot \overline{EN2} \cdot EN3$

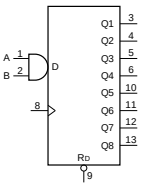
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

SN74HC164AN(TI)

C-MOS 8-BIT SERIAL-IN/PARALLEL-OUT SHIFT REGISTER

—TOP VIEW—



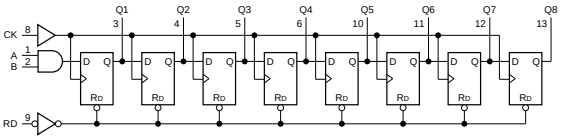


NOTE:

TYPE	VDD
AC/VHC	+2 to +5.5 V
HC	+2 to +6 V
HCT	+5 V

INPUTS				OUTPUTS			
RD	CK	A	B	Q1	Q2	---	Q8
0	X	X	X	0	0	0	0
1	0	X	X	Q1o	Q2o	---	Q8o
1	↑	1	1	1	Q1n	---	Q7n
1	↑	0	X	0	Q1n	---	Q7n
1	↑	X	0	0	Q1n	---	Q7n

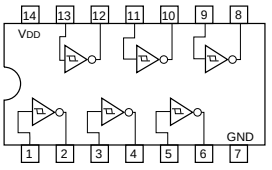
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

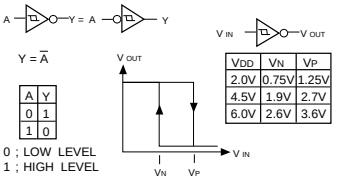


SN74HC14AN(TI)
SN74HC14ANS(TI)

C-MOS HEX SCHMITT TRIGGER INVERTERS

—TOP VIEW—





A	Y
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

VDD	VN	VP
2.0V	0.75V	1.25V
4.5V	1.9V	2.7V
6.0V	2.6V	3.6V

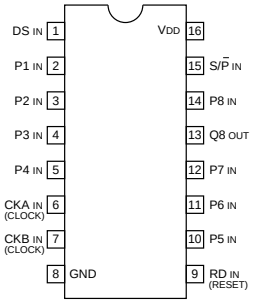
NOTE :

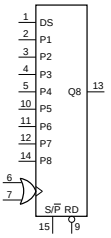
TYPE	VDD
TC74AC/VHC	+2V to +5.5V
OTHER TYPES	+2V to +6V

SN74HC166AN(TI)

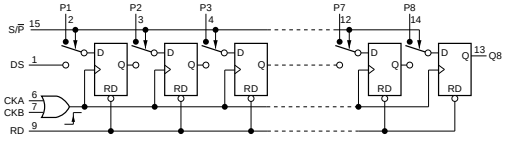
C-MOS 8-BIT SHIFT REGISTER

—TOP VIEW—





DS ; DATA SERIAL INPUT
P1-P8 ; DATA PARALLEL INPUT
CK ; CLOCK



CKA	CKB	CK
0	0	0
X	1	1
1	X	1
1	↓	1
↓	1	1
0	↓	↓
↓	0	↓

INPUT					OUTPUT
RD	S/P̄	CK	DS	P1-P8	Q8
0	X	X	X	X	0
1	X	0	X	X	Q8o
1	0	↓	X	1-8	8
1	1	↓	1	X	Q7n
1	1	↓	0	X	Q7n
1	X	↓	X	X	A8o

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

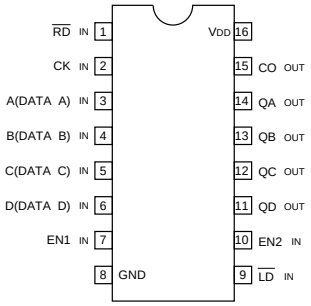
NOTE:

TYPE	VDD
TC40H	+2 to +8 V
OTHERS	+2 to +6 V

SN74HC163AN(TI)
TC74AC163F(TOSHIBA)

C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER

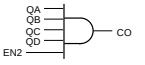
—TOP VIEW—



MODE SELECTION

CONTROL INPUTS				MODE
RD	LD	EN1	EN2	
0	X	X	X	RESET (SYNCHRONOUS)
1	0	X	X	PRESET (SYNCHRONOUS)
1	1	0	X	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1	COUNT

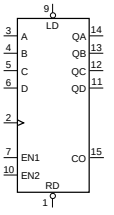
CARRY OUTPUT "CO"



CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15".

NOTE:

TYPE	VDD
HC	+2 to +6V
AC/VHC	+2 to +5.5V
HCT/ACT/FCT	+5V



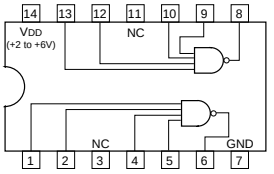
COUNT SEQUENCE

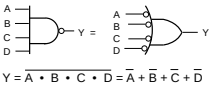
COUNT	OUTPUTS			
	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

SN74HC20ANS(TI)

C-MOS 4-INPUT POSITIVE-NAND GATE

—TOP VIEW—





$Y = \overline{A \cdot B \cdot C \cdot D} = \overline{A} + \overline{B} + \overline{C} + \overline{D}$

A	B	C	D	Y
0	0	0	0	1
0	0	0	1	1
0	0	1	0	1
0	0	1	1	1
0	1	0	0	1
⋮	⋮	⋮	⋮	⋮
1	1	0	1	1
1	1	1	0	1
1	1	1	1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

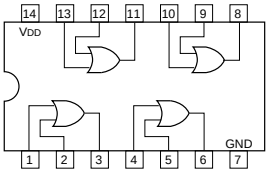
NOTE:

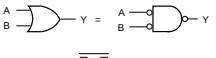
TYPE	VDD
AC/VHC	+2 to +5.5V
HC	+2 to +6V

SN74HC32ANS(TI)
TC74AC32F(TOSHIBA)

C-MOS QUAD 2-INPUT OR GATES

-TOP VIEW-





$Y = A + B = \overline{\overline{A} \cdot \overline{B}}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL

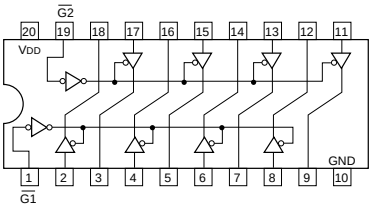
NOTE:

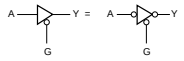
TYPE	VDD
74AC/74VHC	+2 to +5.5V
74HC	+2 to +6V
74HCT	+4.5 to +5.5V

SN74HC244ANS(TI)

C-MOS BUS BUFFER WITH 3-STATE OUTPUTS

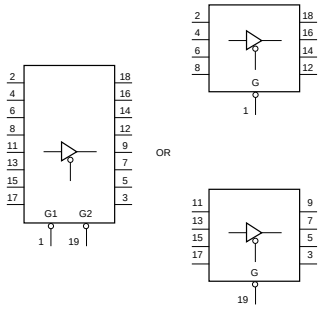
-TOP VIEW-





G	A	Y
0	0	0
0	1	1
×	×	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE
HI-Z ; HIGH IMPEDANCE



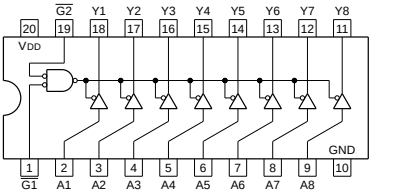
NOTE:

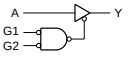
TYPE	VDD
74HC 40H	+2 to +6V
74ACT 74BCT 74FCT 74HCT	+4.5 to +5.5V
74LCX	+2 to +3.6V
74AC/74VHC	+2 to +5.5V

SN74HC541AN(TI)

C-MOS BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS

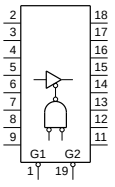
- TOP VIEW -





G1	G2	A	Y
0	0	0	1
0	0	1	0
1	X	X	HI-Z
X	1	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE



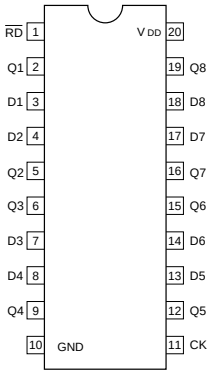
NOTE :

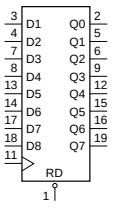
TYPE	VDD
TC74AC/TC74VHC	+2 to +5.5V
ABT/ACT/BCT/HCT/VHCT	+5V
OTHER TYPES	+2 to +6V

SN74HC273AN(TI)

C-MOS OCTAL D-TYPE FLIP-FLOPS WITH RESET

- TOP VIEW -





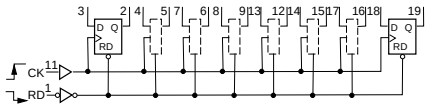
EACH FLIP-FLOP

INPUT			OUTPUT
RD	CK	D	Q
0	X	X	0
1	↑	0	0
1	↑	1	1
1	0	X	Qo

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
Qo ; NO CHANGE

NOTE :

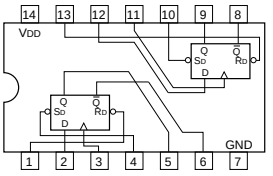
TYPE	VDD
ACT / HCT	+5V
TC74AC / TC74VHC	+2 to +5.5V
OTHER TYPES	+2 to +6V



SN74HC74AN(TI)
TC74AC74F(TOSHIBA)

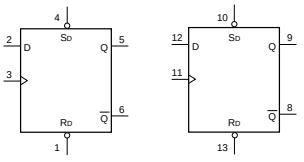
C-MOS DUAL D-TYPE FLIP-FLOPS WITH DIRECT SET/RESET

-TOP VIEW-



INPUTS				OUTPUTS	
$\overline{SD}$	$\overline{RD}$	CK	D	Qn+1	$\overline{Qn+1}$
0	1	×	×	1	0
1	0	×	×	0	1
0	0	×	×	1	1
1	1	↑	1	1	0
1	1	↑	0	0	1
1	1	0	×	Qn	$\overline{Qn}$

0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE



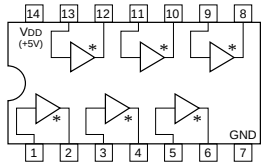
NOTE:

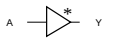
TYPE	VDD
74HCT/74ACT	+4.5 to +5.5V
74LVC	+2.7 to +3.6V
74AC/74VHC	+2 to +5.5V
OTHERS	+2 to +6V

TC74HC07AF(TOSHIBA)

C-MOS BUFFER/DRIVER WITH OPEN-COLLECTOR

—TOP VIEW—





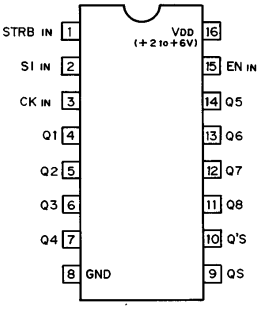
A	Y
0	0
1	1

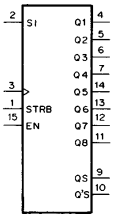
0 ; LOW LEVEL
1 ; HIGH LEVEL
* ; OPEN COLLECTOR

TC74HC4094AP(TOSHIBA)

C-MOS 8-BIT SHIFT AND STORE REGISTER (3-STATE)

– TOP VIEW –



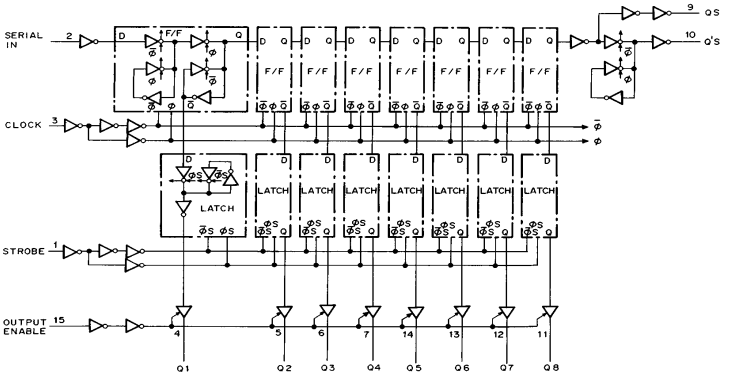


SI ; SERIAL DATA INPUT
CK ; CLOCK INPUT
STRB ; STROBE INPUT
EN ; OUTPUT ENABLE INPUT
Q1~ Q8 ; PARALLEL DATA OUTPUTS
QS , Q'S ; SERIAL DATA OUTPUTS

INPUTS				PARALLEL OUT		SERIAL OUT	
CK	EN	STRB	SI	Q1	Qn	QS	Q'S
↑	0	X	X	HI-Z	HI-Z	Q7	NC
↓	0	X	X	HI-Z	HI-Z	NC	Q7
↑	1	0	X	NC	NC	Q7	NC
↑	1	1	0	0	Qn-1	Q7	NC
↑	1	1	1	1	Qn-1	Q7	NC
↓	1	1	1	NC	NC	NC	Q7

1 ; HIGH
0 ; LOW
X ; DON'T CARE

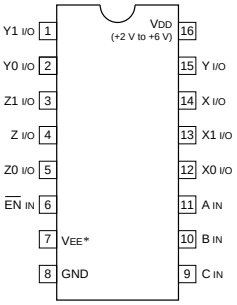
HI-Z ; HIGH IMPEDANCE
NC ; NO CHANGE



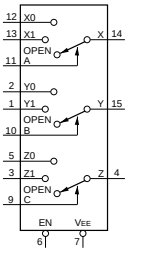
TC74HC4053AP(TOSHIBA)

C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER

-TOP VIEW-



VEE*; VDD – VEE = +3 V to +12 V
VEE ≤ GND



CONTROL INPUTS				ON CHANNEL		
EN	SELECT					
	C	B	A			
0	0	0	0	Z0	Y0	X0
0	0	0	1	Z0	Y0	X1
0	0	1	0	Z0	Y1	X0
0	0	1	1	Z0	Y1	X1
0	1	0	0	Z1	Y0	X0
0	1	0	1	Z1	Y0	X1
0	1	1	0	Z1	Y1	X0
0	1	1	1	Z1	Y1	X1
1	X	X	X	OPEN		

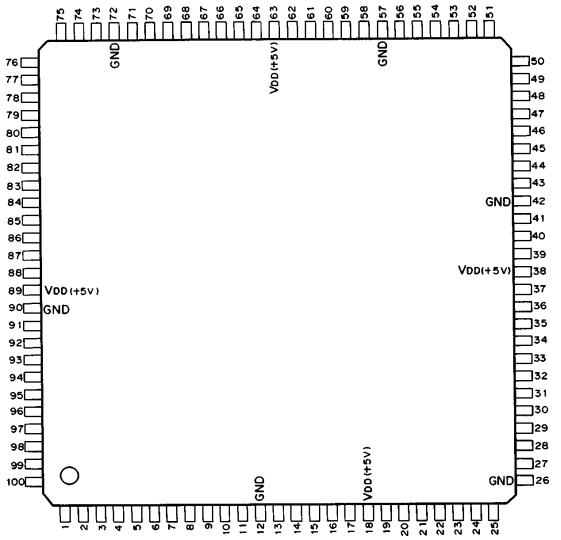
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

http://getMANUAL.com

TMP68301AFR-16(TOSHIBA)

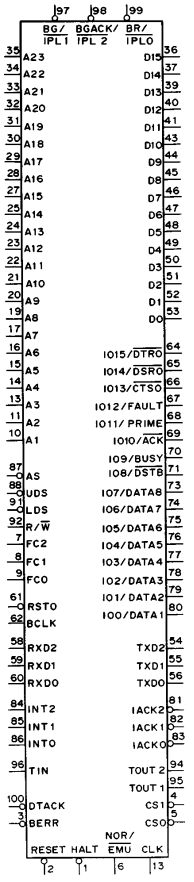
C-MOS 16-BIT MICRO COMPUTER

– TOP VIEW –



(V_{DD} = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I/O	$\overline{HALT}$	26	–	GND	51	I/O	D2	76	I/O	IO4/DATA5
2	I/O	$\overline{RESET}$	27	I/O	A15	52	I/O	D1	77	I/O	IO3/DATA4
3	I/O	$\overline{BERR}$	28	I/O	A16	53	I/O	D0	78	I/O	IO2/DATA3
4	O	$\overline{CS1}$	29	I/O	A17	54	O	TXD2	79	I/O	IO1/DATA2
5	O	$\overline{CS0}$	30	I/O	A18	55	O	TXD1	80	I/O	IO0/DATA1
6	I	NOR/$\overline{EMU}$	31	I/O	A19	56	O	TXD0	81	O	$\overline{IACK2}$
7	I/O	FC2	32	I/O	A20	57	–	GND	82	O	$\overline{IACK1}$
8	I/O	FC1	33	I/O	A21	58	I	RXD2	83	O	$\overline{IACK0}$
9	I/O	FC0	34	I/O	A22	59	I	RXD1	84	I	INT2
10	I/O	A1	35	I/O	A23	60	I	RXD0	85	I	INT1
11	I/O	A2	36	I/O	D15	61	I/O	$\overline{RST0}$	86	I	INT0
12	–	GND	37	I/O	D14	62	I	BCLK	87	I/O	$\overline{AS}$
13	I/O	A3	38	–	V_{DD}	63	–	V_{DD}	88	I/O	$\overline{UDS}$
14	I/O	A4	39	I/O	D13	64	I/O	IO15/$\overline{DTR0}$	89	–	V_{DD}
15	I/O	A5	40	I/O	D12	65	I/O	IO14/$\overline{DSR0}$	90	–	GND
16	I/O	A6	41	I/O	D11	66	I/O	IO13/$\overline{CTS0}$	91	I/O	$\overline{LDS}$
17	I/O	A7	42	–	GND	67	I/O	IO12/FAULT	92	I/O	R/$\overline{W}$
18	–	V_{DD}	43	I/O	D10	68	I/O	IO11/PRIME	93	I	CLK
19	I/O	A8	44	I/O	D9	69	I/O	IO10/$\overline{ACK}$	94	O	TOUT2
20	I/O	A9	45	I/O	D8	70	I/O	IO9/BUSY	95	O	TOUT1
21	I/O	A10	46	I/O	D7	71	I/O	IO8/$\overline{DSTB}$	96	I	TIN
22	I/O	A11	47	I/O	D6	72	–	GND	97	O	$\overline{BG}$/$\overline{IPL1}$
23	I/O	A12	48	I/O	D5	73	I/O	IO7/DATA8	98	I/O	$\overline{BGACK}$/$\overline{IPL2}$
24	I/O	A13	49	I/O	D4	74	I/O	IO6/DATA7	99	I/O	$\overline{BR}$/$\overline{IPL0}$
25	I/O	A14	50	I/O	D3	75	I/O	IO5/DATA6	100	I/O	$\overline{DTACK}$


97 98 99
BG/ IPL1
BGACK/ IPL 2
BR/ IPL0
A23 A22 A21 A20 A19 A18 A17 A16 A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1
AS UDS LDS R/W FC2 FC1 FC0 RST0 BCLK RXD2 RXD1 RXD0 INT2 INT1 INT0 TIN DTACK BERR
D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
IO15/DTR0 IO14/DSR0 IO13/CTS0 IO12/FAULT IO11/ PRIME IO10/ACK IO9/BUSY IO8/DSTB IO7/DATA8 IO6/DATA7 IO5/DATA6 IO4/DATA5 IO3/DATA4 IO2/DATA3 IO1/ DATA2 IO0/DATA1
TXD2 TXD1 TXD0 IACK2 IACK1 IACK0 TOUT 2 TOUT 1 CS1 CS0
NOR/ EMU
RESET HALT EMU CLK

INPUT

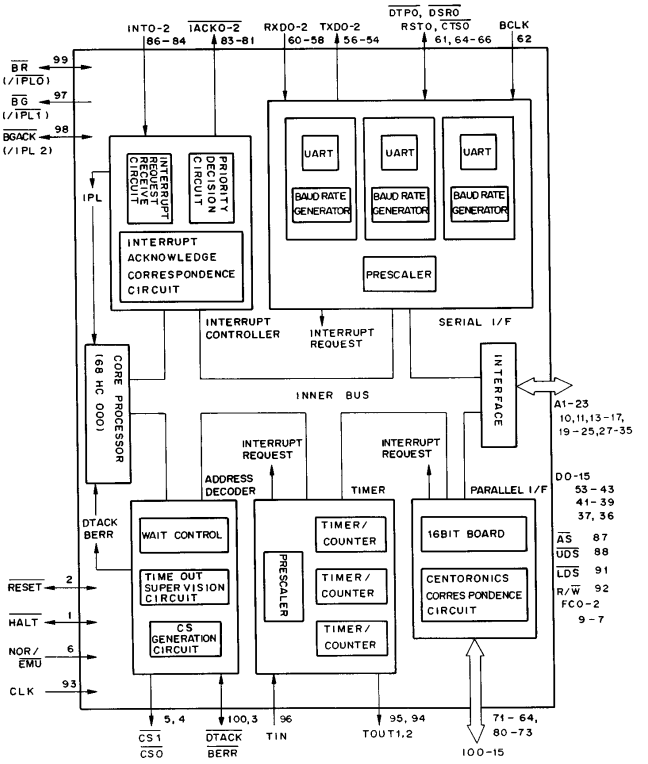
BCLK	; BAUD RATE CLOCK
CLK	; CLOCK
INT0 – 2	; INTERRUPT REQUESTS
NOR/$\overline{EMU}$	; MODE SELECT
RXD0 – 2	; RECEIVE DATA
TIN	; TIMER INPUT

OUTPUT

$\overline{BG}$ (/$\overline{IPL1}$)	; BUS GROUND
$\overline{CS0}$, 1	; CHIP SELECTS
$\overline{IACK0}$ – 2	; INTERRUPT ACKNOWLEDGE
TOUT1, 2	; TIMER OUTPUTS
TXD0 – 2	; TRANSFER DATA

INPUT/OUTPUT

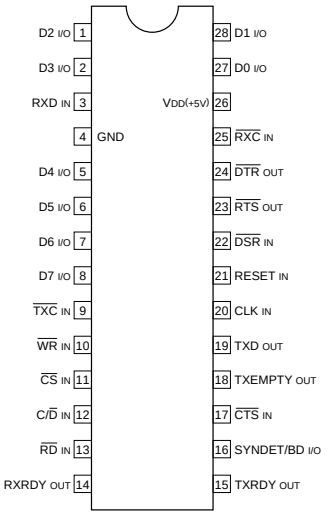
A1 – 23	; ADDRESS BUS
$\overline{ACK}$	; I/O PORT
$\overline{AS}$	; ADDRESS STROBE
$\overline{BERR}$	; BUS ERROR
$\overline{BGACK}$ (/$\overline{IPL2}$)	; BUS GROUND ACKNOWLEDGE
$\overline{BR}$ (/$\overline{IPL0}$)	; BUS REQUEST
BUSY	; I/O PORT
$\overline{CTS0}$, $\overline{DSR0}$, $\overline{DTR0}$, $\overline{DSTB}$	; I/O PORTS
D0 – 15	; DATA BUS
DATA1 – 8	; I/O PORTS
$\overline{DTACK}$	; DATA TRANSFER ACKNOWLEDGE
FAULT	; I/O PORT
FC0 – 2	; FUNCTION CORDS
$\overline{HALT}$	; HALT
IO0 – 15	; I/O PORT
$\overline{LDS}$	; LOWER DATA STROBE
PRIME	; I/O PORT
$\overline{RESET}$	; RESET
$\overline{RST0}$	; TRANSFER REQUEST
R/$\overline{W}$	; READ/WRITE
$\overline{UDS}$	; UPPER DATA STROBE

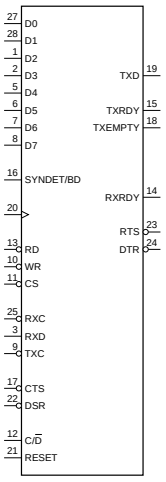


TMP82C51AM(TOSHIBA)

C-MOS 8-BIT MICRO PROCESSOR

-TOP VIEW-





INPUT

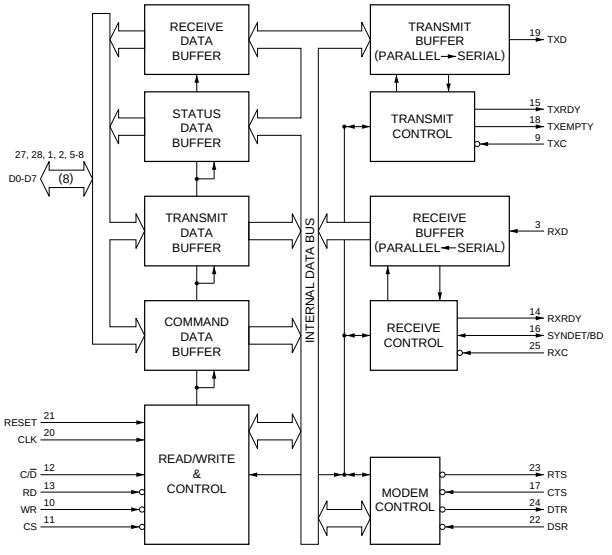
C/D	;	DATA CONTROL
CLK	;	SYSTEM CLOCK
CS	;	CHIP SELECT
CTS	;	CLEAR TO SEND
DSR	;	DATA SET READY
RESET	;	MASTER RESET
RD	;	DATA READ
RXC	;	RECEIVE CLOCK
RXD	;	RECEIVE DATA
TXC	;	TRANSMIT CLOCK
WR	;	DATA WRITE

OUTPUT

DTR	;	DATA TERMINAL READY
RTS	;	REQUEST TO SEND
RXRDY	;	RECEIVE READY
TXD	;	TRANSMIT DATA
TXEMPTY	;	TRANSMIT EMPTY
TXRDY	;	TRANSMIT READY

INPUT/OUTPUT

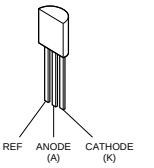
D0-D7	;	DATA
SYNDET/BD	;	SYNC/BREAK CHARACTER DETECT

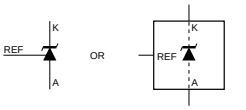


UPC1093(NEC)

ADJUSTABLE PRECISION SHUNT REGULATOR

-TOP VIEW-

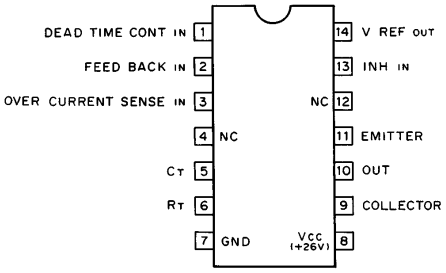


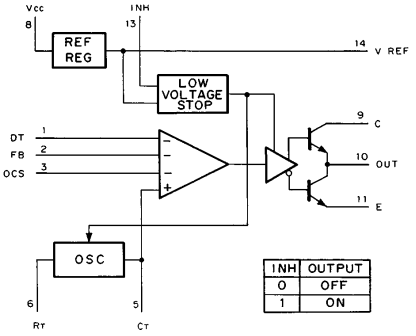


UPC1094C(NEC)

PWM POWER CONTROLLER

– TOP VIEW –



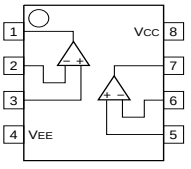


INH	OUTPUT
0	OFF
1	ON

UPC4572C(NEC)

DUAL OPERATIONAL AMPLIFIERS (SINGLE-SUPPLY TYPE)

–TOP VIEW–



TYPE	VCC - VEE
828 TYPE	+5 to +36V
2244 TYPE	+2.5 to +36V
2904 TYPE	+3 to +24V
3404 TYPE	+4 to +32V
3414 TYPE	+3 to +10V
4572 TYPE	+4 to +14V
5216 TYPE	+4 to +32V
7022 TYPE	+3 to +16V
75W01 TYPE	+3 to +10V
33172 TYPE	+3 to +44V
OTHERS	+3 to +36V

SECTION 7
SPARE PARTS

7-1. NOTES ON REPAIR PARTS

(1) Safety Related Components Warning

Components marked ⚠ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

(2) Standardization of Parts

Repair parts supplied from Sony Parts Center may not be always identical with the parts which actually in use due to “accommodating the improved parts and/or engineering changes” or “standardization of genuine parts”.

This manual’s exploded views and electrical spare parts list are indicating the part numbers of “the standardized genuine parts at present” .

(3) Stock of Parts

Parts marked with “o” SP (Supply Code) column of the spare parts list are not normally required for routine service work. Orders for parts marked with “o” will be processed, but allow for additional delivery time.

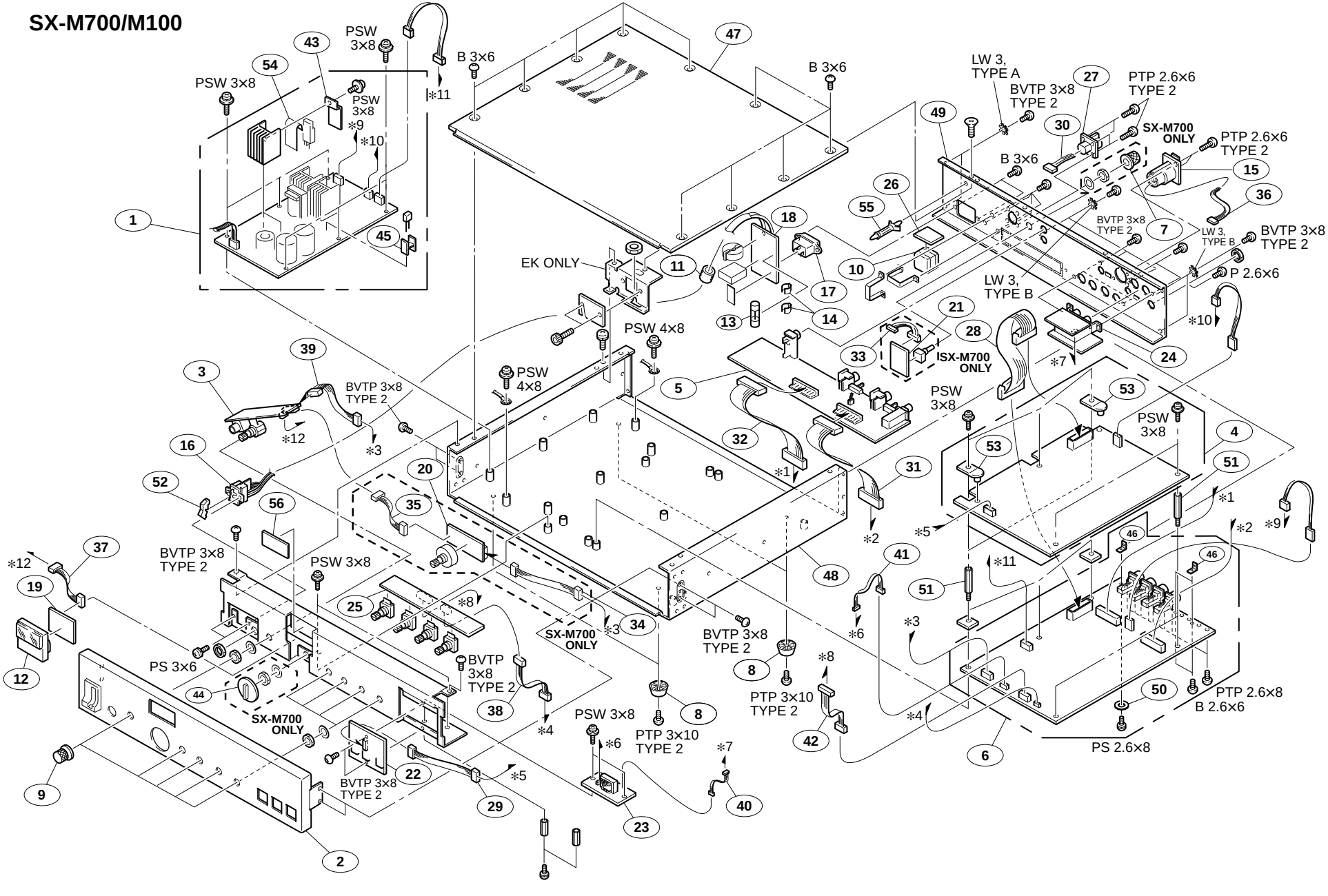
(4) Units for Capacitors, Inductors and Resistors

The following units are assumed in schematic diagrams, electrical parts list and exploded views unless otherwise specified.

Capacitors : µF
Inductors : µH
Resistors : Ω

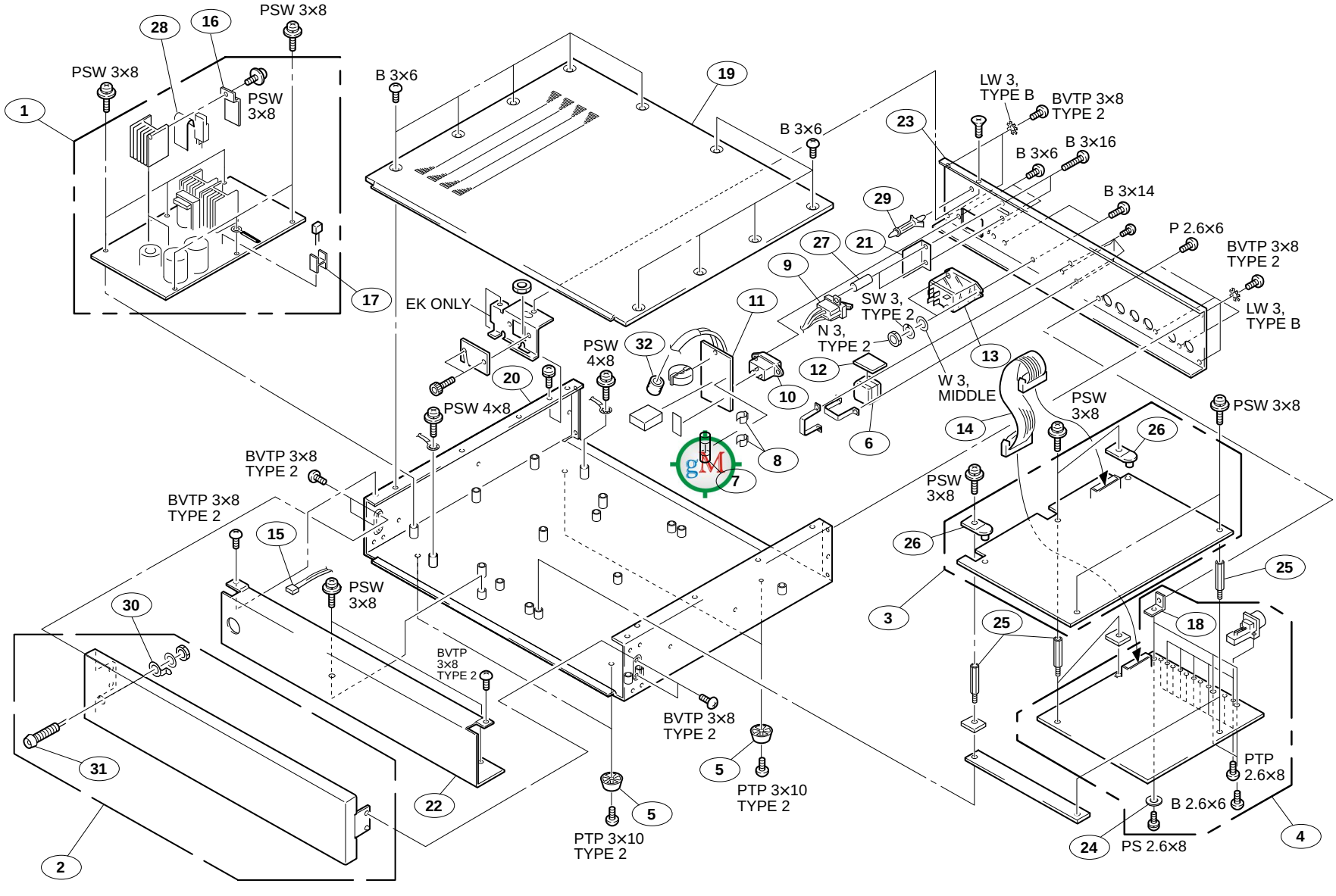
7-2. EXPLODED VIEWS

SX-M700/M100



No.		Part No.	SP	Description
1		A-8265-473-A	o	MOUNTED CIRCUIT BOARD,PS-364 (J,EK MODEL)
		A-8312-940-A	o	MOUNTED CIRCUIT BOARD,PS-364 (U MODEL)
2		A-8314-989-A	o	PANEL ASSY,FRONT(SX-M700)
		A-8310-305-A	o	PANEL ASSY,FRONT(SX-M100)
3		A-8314-994-A	o	MOUNTED CIRCUIT BOARD,HP-65
4		A-8314-996-A	o	MOUNTED CIRCUIT BOARD,CPU-181(MAIN)
5		A-8314-999-A	o	MOUNTED CIRCUIT BOARD,AA-79 (SX-M700)
		A-8310-308-A	o	MOUNTED CIRCUIT BOARD,AA-79X (SX-M100)
6		A-8315-509-A	o	MOUNTED CIRCUIT BOARD,AA-93 (SX-M700)
		A-8313-734-A	o	MOUNTED CIRCUIT BOARD,AA-93X (SX-M100)
7		X-3167-626-1	s	KNOB ASSY,VR(SX-M700)
8		X-3556-910-0	s	FOOT ASSY,MF
9		X-3651-342-1	s	KNOB ASSY,CONTROL
10		1-416-600-11	s	COIL,CHOKE (J,EK MODEL)
11		1-500-021-11	o	CLAMP,SLEEVE FERRITE
12		1-520-439-00	s	METER,VU
13	⚠	1-532-703-00	s	FUSE 4A(J,U MODEL)
	⚠	1-576-233-41	s	FUSE(H.B.C) 6.3A(EK MODEL)
14		1-533-189-11	s	HOLDER,FUSE
15		1-563-029-21	s	CONNECTOR(RECEPTACLE) 3P
16	⚠	1-570-384-11	s	SWITCH,SEESAW(AC POWER)
17	⚠	1-580-375-11	s	INLET 3P
18		1-654-127-11	o	PRINTED CIRCUIT BOARD,PS-363
19		1-654-374-11	o	PRINTED CIRCUIT BOARD,MT-105
20		1-654-375-11	o	PRINTED CIRCUIT BOARD,SW-722 (SX-M700)
21		1-654-376-11	o	PRINTED CIRCUIT BOARD,SW-723 (SX-M700)
22		1-654-417-11	o	PRINTED CIRCUIT BOARD,SW-710
23		1-665-849-11	o	PRINTED CIRCUIT BOARD,TR-107
24		1-665-850-11	o	PRINTED CIRCUIT BOARD,CN-1478
25		1-665-851-11	o	PRINTED CIRCUIT BOARD,VR-237
26		1-665-964-11	o	PRINTED CIRCUIT BOARD,AC-190 (J,EK MODEL)
27		1-770-022-11	o	CONNECTOR,RP TYPE 6P
28		1-953-965-11	o	CABLE,FLATE 422
29		1-953-967-11	o	HARNESS,PRESSURE WELDING SW
30		1-954-050-11	o	HARNESS,(CN/SW)
31		1-954-066-11	o	HARNESS,PRESSURE WELDING H10
32		1-954-067-11	o	HARNESS,PRESSURE WELDING H11
33		1-954-068-12	o	HARNESS,PRESSURE WELDING H12 (SX-M700)
34		1-954-069-11	o	HARNESS,PRESSURE WELDING H13 (SX-M700)
35		1-954-070-11	o	HARNESS,PRESSURE WELDING H14 (SX-M700)
36		1-954-071-11	o	HARNESS,PRESSURE WELDING H15
37		1-954-072-11	o	HARNESS,PRESSURE WELDING H17
38		1-954-073-11	o	HARNESS,PRESSURE WELDING H18
39		1-954-219-21	o	HARNESS,PRESSURE WELDING H23 (SX-M100)
40		1-957-867-11	o	HARNESS,PRESSURE WELDING TR2
41		1-957-866-11	o	HARNESS,PRESSURE WELDING TR1
42		1-957-868-11	o	HARNESS,PRESSURE WELDING MIC VR
43		2-434-297-11	o	BRACKET(DP-UR17)
44		3-155-404-21	o	KNOB(SX-M700)
45		3-161-137-01	o	SPACER,LED
46		3-186-728-01	o	NUT,L TYPE M2.6
47		3-186-733-02	o	PLATE,TOP(D350)
48		3-186-735-06	o	CHASSIS
49		3-194-586-01	o	PANEL,REAR(SX-M700)
		3-194-587-01	o	PANEL,REAR(SX-M100)
50		3-534-313-01	o	COLLAR
51		3-569-342-00	o	SUPPORT
52		3-688-814-01	s	CAP,SWITCH
53		4-302-090-00	o	HINGE
54		4-875-409-01	o	INSULATOR(E)
55		4-924-098-91	o	HOLDER,PC BOARD
56		9-911-844-XX	o	CUSHION

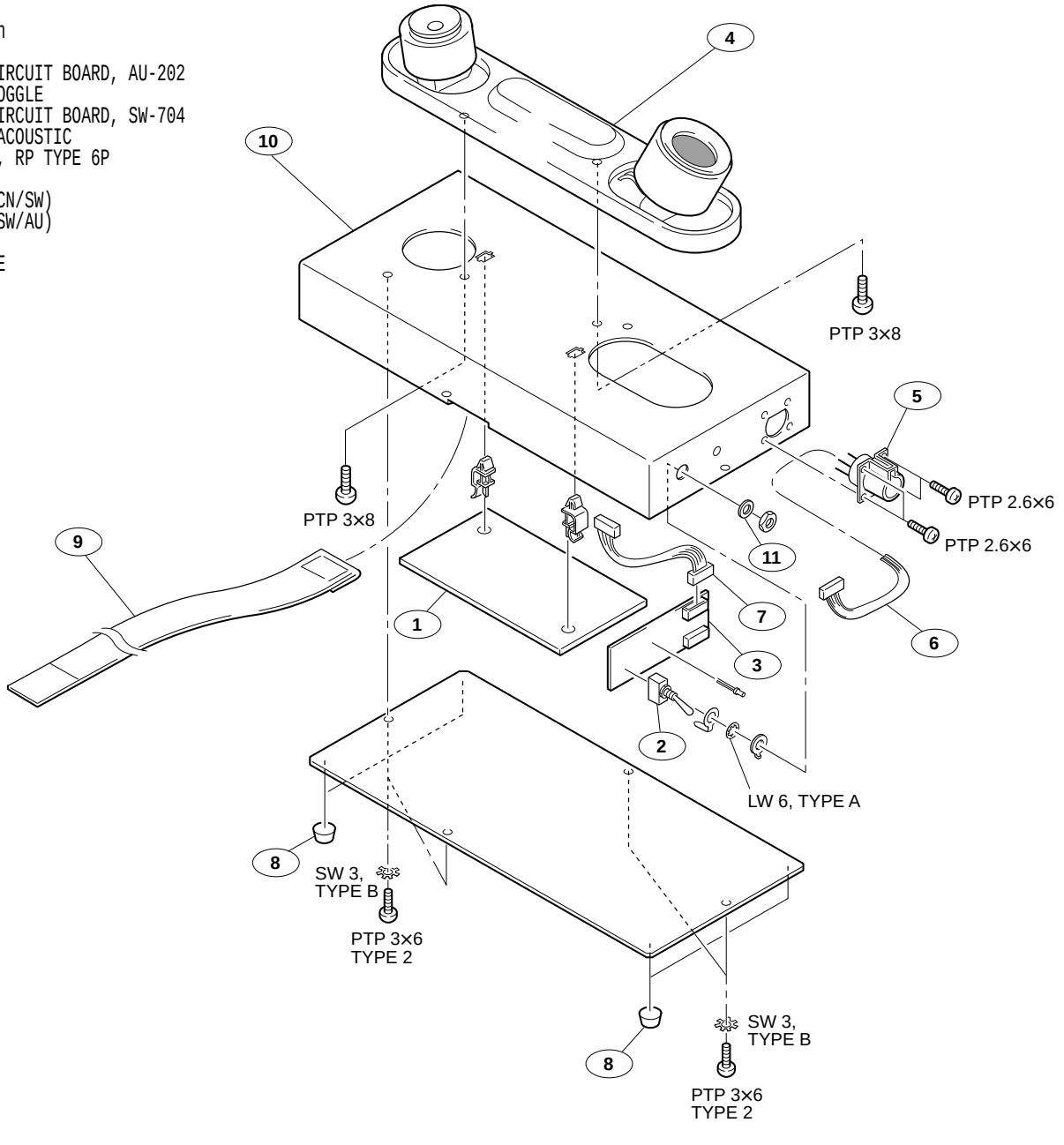
SX-E120


PSW 3×8
28
16
PSW 3×8
PSW 3×8
1
B 3×6
19
B 3×6
23
LW 3, TYPE B
BVTP 3×8 TYPE 2
B 3×6
B 3×16
B 3×14
29
P 2.6×6
BVTP 3×8 TYPE 2
27
21
9
SW 3, TYPE 2
LW 3, TYPE B
17
EK ONLY
11
N 3, TYPE 2
PSW 4×8
32
13
12
W 3, MIDDLE
20
PSW 4×8
10
PSW 3×8
PSW 3×8
14
26
6
8
BVTP 3×8 TYPE 2
7
PSW 3×8
BVTP 3×8 TYPE 2
26
15
25
3
PSW 3×8
30
25
18
BVTP 3×8 TYPE 2
BVTP 3×8 TYPE 2
5
PTP 3×10 TYPE 2
PTP 2.6×8
31
22
B 2.6×6
5
4
PTP 3×10 TYPE 2
24
PS 2.6×8
2

No.	Part No.	SP	Description
1	A-8265-473-A	o	MOUNTED CIRCUIT BOARD,PS-364 (J,EK MODEL)
	A-8312-940-A	o	MOUNTED CIRCUIT BOARD,PS-364 (U MODEL)
2	A-8265-482-A	o	PANEL ASSY,FRONT
3	A-8265-483-A	o	MOUNTED CIRCUIT BOARD,CPU-181(EXT)
4	A-8265-486-A	o	MOUNTED CIRCUIT BOARD,AL-31
5	X-3556-910-0	s	FOOT ASSY,MF
6	1-416-600-11	s	COIL,CHOKE(J,EK MODEL)
7	⚠ 1-532-703-00	s	FUISE 4A(J,U MODEL)
	⚠ 1-576-233-41	s	FUSE(H.B.C) 6.3A(EK MODEL)
8	1-533-189-11	s	HOLDER,FUSE
9	⚠ 1-570-384-11	s	SWITCH,SEESAW(AC POWER)
10	⚠ 1-590-375-11	s	INLET 3P
11	1-654-127-11	s	PRINTED CIRCUIT BOARD,PS-363
12	1-665-964-11	o	PRINTED CIRCUIT BOARD,AC-190 (J,EK MODEL)
13	1-755-063-11	o	RELAY,POWER
14	1-953-965-11	o	CABLE,FLAT 422
15	1-954-064-11	o	HARNESS,COLDWELDING H26
16	2-434-297-01	o	BRACKET(DP-UR17)
17	3-161-137-01	o	SPACER,LED
18	3-186-728-01	o	NUT,L TYPE M2.6
19	3-186-733-02	o	PLATE,TOP(D350)
20	3-186-735-06	o	CHASSIS
21	3-187-935-01	o	GUARD
22	3-187-373-01	o	PANEL,FRONT SUB
23	3-194-588-01	o	PANEL,REAR(J MODEL)
	3-186-745-05	o	PANEL,REAR(U,EK MODEL)
24	3-534-313-01	o	COLLAR
25	3-569-324-00	o	SUPPORT
26	4-302-090-00	o	HINGE
27	4-855-006-01	s	SPACER(3x12)
28	4-875-409-01	s	INSULATOR(E)
29	4-924-098-91	o	HOLDER,PC BOARD
30	7-623-513-01	s	LUG,6
31	8-719-950-10	s	DIODE SDB505B-GD
32	1-500-021-11	o	CLAMP,SLEEVE FERRITE

SX-T100

No.	Part No.	SP	Description
1	A-8314-897-A	o	MOUNTED CIRCUIT BOARD, AU-202
2	1-533-629-00	s	SWITCH, TOGGLE
3	1-654-218-11	o	PRINTED CIRCUIT BOARD, SW-704
4	1-759-005-11	o	COUPLER, ACOUSTIC
5	1-770-022-11	o	CONNECTOR, RP TYPE 6P
6	1-954-050-11	o	HARNESS (CN/SW)
7	1-954-051-11	o	HARNESS (SW/AU)
8	2-246-108-00	s	CUSHION
9	3-186-668-01	o	MAGIC TAPE
10	3-186-670-01	o	CABINET
11	3-701-444-21	s	WASHER, 6



7-3. ELECTRICAL PARTS LIST

AA-79 BOARD (SX-M700)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-999-A	o	MOUNTED CIRCUIT BOARD,AA-79
C601	1-102-074-00	s	CERAMIC 0.001uF 10% 50V
C602	1-126-960-11	s	ELECT 1uF 20% 50V
C603	1-126-960-11	s	ELECT 1uF 20% 50V
C604	1-126-964-11	s	ELECT 10uF 20% 50V
C605	1-102-112-00	s	CERAMIC 330pF 10% 50V
C606	1-126-964-11	s	ELECT 10uF 20% 50V
C607	1-102-112-00	s	CERAMIC 330pF 10% 50V
C608	1-126-967-11	s	ELECT 47uF 20% 10V
C609	1-101-004-00	s	CERAMIC 0.01uF 50V
C610	1-101-004-00	s	CERAMIC 0.01uF 50V
C611	1-126-967-11	s	ELECT 47uF 20% 10V
C612	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C613	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C614	1-126-967-11	s	ELECT 47uF 20% 10V
C615	1-101-004-00	s	CERAMIC 0.01uF 50V
C616	1-101-004-00	s	CERAMIC 0.01uF 50V
C617	1-126-967-11	s	ELECT 47uF 20% 10V
C618	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C619	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C620	1-126-960-11	s	ELECT 1uF 20% 50V
C621	1-102-074-00	s	CERAMIC 0.001uF 10% 50V
C622	1-126-960-11	s	ELECT 1uF 20% 50V
C623	1-130-471-00	s	MYLAR 0.001uF 5% 50V
C624	1-126-963-11	s	ELECT 4.7uF 20% 50V
C625	1-101-004-00	s	CERAMIC 0.01uF 50V
C626	1-126-967-11	s	ELECT 47uF 20% 10V
C627	1-101-004-00	s	CERAMIC 0.01uF 50V
C628	1-126-967-11	s	ELECT 47uF 20% 10V
C629	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C630	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C631	1-126-967-11	s	ELECT 47uF 20% 10V
C632	1-101-004-00	s	CERAMIC 0.01uF 50V
C633	1-101-004-00	s	CERAMIC 0.01uF 50V
C634	1-126-967-11	s	ELECT 47uF 20% 10V
C635	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C636	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C637	1-126-960-11	s	ELECT 1uF 20% 50V
C638	1-102-074-00	s	CERAMIC 0.001uF 10% 50V
C639	1-102-110-00	s	CERAMIC 220pF 10% 50V
C640	1-102-074-00	s	CERAMIC 0.001uF 10% 50V
C641	1-102-110-00	s	CERAMIC 220pF 10% 50V
C651	1-130-471-00	s	MYLAR 0.001uF 5% 50V
C652	1-130-477-00	s	MYLAR 0.0033uF 5% 50V
C653	1-130-477-00	s	MYLAR 0.0033uF 5% 50V
C671	1-101-004-00	s	CERAMIC 0.01uF 50V
C672	1-101-004-00	s	CERAMIC 0.01uF 50V
C673	1-101-004-00	s	CERAMIC 0.01uF 50V
C674	1-101-004-00	s	CERAMIC 0.01uF 50V
C675	1-102-074-00	s	CERAMIC 0.001uF 10% 50V
C676	1-102-074-00	s	CERAMIC 0.001uF 10% 50V
C677	1-102-074-00	s	CERAMIC 0.001uF 10% 50V
C678	1-102-074-00	s	CERAMIC 0.001uF 10% 50V
C679	1-102-074-00	s	CERAMIC 0.001uF 10% 50V
C680	1-102-074-00	s	CERAMIC 0.001uF 10% 50V
C961	1-130-495-00	s	MYLAR 0.1uF 5% 50V

(AA-79 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C962	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C963	1-126-949-11	s	ELECT 220uF 20% 35V
CN112	1-564-002-11	s	PIN,CONNECTOR 3P
CN113	1-506-473-11	s	CONNECTOR 8P,MALE
CN114	1-564-005-11	o	CONNECTOR 6P,MALE
CN115	1-506-491-11	s	CONNECTOR 12P,MALE
CN116	1-506-492-11	o	CONNECTOR 13P,MALE
CN961	1-568-613-11	o	SOCKET,SIL 2P
D1	8-719-911-19	s	DIODE 1SS119
D2	8-719-911-19	s	DIODE 1SS119
D3	8-719-911-19	s	DIODE 1SS119
D4	8-719-911-19	s	DIODE 1SS119
IC101	8-759-153-69	s	IC UPC4572C
IC102	8-759-153-69	s	IC UPC4572C
IC103	8-759-153-69	s	IC UPC4572C
IC104	8-759-153-69	s	IC UPC4572C
IC105	8-759-231-66	s	IC TC74HC4053AP
IC106	8-759-231-66	s	IC TC74HC4053AP
J101	1-565-406-61	s	JACK,PIN 1P
J102	1-565-406-61	s	JACK,PIN 1P
J103	1-507-863-51	s	JACK,PHONE
J104	1-565-352-11	s	JACK,PIN 2P
J105	1-565-320-61	s	JACK,PIN 6P
J106	1-565-320-61	s	JACK,PIN 6P
L961	1-414-158-11	s	INDUCTOR 2.2uH
PS961	⚠ 1-532-984-11	s	LINK,IC 2A
R601	1-249-429-11	s	CARBON 10K 5% 1/4W
R602	1-249-429-11	s	CARBON 10K 5% 1/4W
R603	1-249-417-11	s	CARBON 1K 5% 1/4W
R604	1-249-429-11	s	CARBON 10K 5% 1/4W
R605	1-249-417-11	s	CARBON 1K 5% 1/4W
R606	1-249-417-11	s	CARBON 1K 5% 1/4W
R607	1-249-429-11	s	CARBON 10K 5% 1/4W
R608	1-249-417-11	s	CARBON 1K 5% 1/4W
R609	1-249-429-11	s	CARBON 10K 5% 1/4W
R610	1-249-425-11	s	CARBON 4.7K 5% 1/4W
R611	1-249-428-11	s	CARBON 8.2K 5% 1/4W
R612	1-249-420-11	s	CARBON 1.8K 5% 1/4W
R613	1-249-439-11	s	CARBON 68K 5% 1/4W
R614	1-249-441-11	s	CARBON 100K 5% 1/4W
R615	1-249-429-11	s	CARBON 10K 5% 1/4W
R616	1-249-430-11	s	CARBON 12K 5% 1/4W
R617	1-249-439-11	s	CARBON 68K 5% 1/4W
R618	1-249-418-11	s	CARBON 1.2K 5% 1/4W
R619	1-249-425-11	s	CARBON 4.7K 5% 1/4W
R620	1-249-428-11	s	CARBON 8.2K 5% 1/4W
R621	1-249-420-11	s	CARBON 1.8K 5% 1/4W
R622	1-249-441-11	s	CARBON 100K 5% 1/4W
R623	1-249-411-11	s	CARBON 330 5% 1/4W
R624	1-249-429-11	s	CARBON 10K 5% 1/4W
R625	1-249-429-11	s	CARBON 10K 5% 1/4W
R626	1-249-411-11	s	CARBON 330 5% 1/4W

(AA-79 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description			
R627	1-249-417-11	s	CARBON	1K	5%	1/4W
R651	1-249-400-11	s	CARBON	39	5%	1/4W
R652	1-249-400-11	s	CARBON	39	5%	1/4W
R653	1-249-400-11	s	CARBON	39	5%	1/4W
R654	1-249-400-11	s	CARBON	39	5%	1/4W
R655	1-249-400-11	s	CARBON	39	5%	1/4W
R656	1-249-400-11	s	CARBON	39	5%	1/4W
R657	1-249-400-11	s	CARBON	39	5%	1/4W
R658	1-249-400-11	s	CARBON	39	5%	1/4W
R659	1-249-400-11	s	CARBON	39	5%	1/4W
R660	1-249-400-11	s	CARBON	39	5%	1/4W
R661	1-249-400-11	s	CARBON	39	5%	1/4W
R662	1-249-400-11	s	CARBON	39	5%	1/4W
R663	1-249-400-11	s	CARBON	39	5%	1/4W
R664	1-249-400-11	s	CARBON	39	5%	1/4W
R671	1-249-441-11	s	CARBON	100K	5%	1/4W
R672	1-249-441-11	s	CARBON	100K	5%	1/4W
R673	1-249-441-11	s	CARBON	100K	5%	1/4W
R674	1-249-435-11	s	CARBON	33K	5%	1/4W
R675	1-249-435-11	s	CARBON	33K	5%	1/4W
R676	1-249-435-11	s	CARBON	33K	5%	1/4W
R677	1-249-437-11	s	CARBON	47K	5%	1/4W
R678	1-249-437-11	s	CARBON	47K	5%	1/4W
R679	1-249-437-11	s	CARBON	47K	5%	1/4W
R680	1-249-441-11	s	CARBON	100K	5%	1/4W
R681	1-249-441-11	s	CARBON	100K	5%	1/4W
R682	1-249-441-11	s	CARBON	100K	5%	1/4W
R683	1-249-435-11	s	CARBON	33K	5%	1/4W
R684	1-249-435-11	s	CARBON	33K	5%	1/4W
R685	1-249-435-11	s	CARBON	33K	5%	1/4W
R686	1-249-437-11	s	CARBON	47K	5%	1/4W
R687	1-249-437-11	s	CARBON	47K	5%	1/4W
R688	1-249-437-11	s	CARBON	47K	5%	1/4W
R689	1-249-400-11	s	CARBON	39	5%	1/4W
S101	1-570-707-11	s	SWITCH,SLIDE			
S102	1-570-707-11	s	SWITCH,SLIDE			

AA-79X BOARD (SX-M100)

Ref. No. or Q'ty	Part No.	SP	Description			
1pc	A-8310-308-A	o	MOUNTED CIRCUIT BOARD,AA-79X			
C601	1-102-074-00	s	CERAMIC	0.001uF	10%	50V
C602	1-126-960-11	s	ELECT	1uF	20%	50V
C603	1-126-960-11	s	ELECT	1uF	20%	50V
C604	1-126-964-11	s	ELECT	10uF	20%	50V
C605	1-102-112-00	s	CERAMIC	330pF	10%	50V
C606	1-126-964-11	s	ELECT	10uF	20%	50V
C607	1-102-112-00	s	CERAMIC	330pF	10%	50V
C608	1-126-967-11	s	ELECT	47uF	20%	10V
C609	1-101-004-00	s	CERAMIC	0.01uF		50V
C610	1-101-004-00	s	CERAMIC	0.01uF		50V
C611	1-126-967-11	s	ELECT	47uF	20%	10V
C612	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C613	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C614	1-126-967-11	s	ELECT	47uF	20%	10V
C615	1-101-004-00	s	CERAMIC	0.01uF		50V
C616	1-101-004-00	s	CERAMIC	0.01uF		50V
C617	1-126-967-11	s	ELECT	47uF	20%	10V
C618	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C619	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C620	1-126-960-11	s	ELECT	1uF	20%	50V
C621	1-102-074-00	s	CERAMIC	0.001uF	10%	50V
C622	1-126-960-11	s	ELECT	1uF	20%	50V
C623	1-130-471-00	s	MYLAR	0.001uF	5%	50V
C624	1-126-963-11	s	ELECT	4.7uF	20%	50V
C625	1-101-004-00	s	CERAMIC	0.01uF		50V
C626	1-126-967-11	s	ELECT	47uF	20%	10V
C627	1-101-004-00	s	CERAMIC	0.01uF		50V
C628	1-126-967-11	s	ELECT	47uF	20%	10V
C629	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C630	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C631	1-126-967-11	s	ELECT	47uF	20%	10V
C632	1-101-004-00	s	CERAMIC	0.01uF		50V
C633	1-101-004-00	s	CERAMIC	0.01uF		50V
C634	1-126-967-11	s	ELECT	47uF	20%	10V
C635	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C636	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C637	1-126-960-11	s	ELECT	1uF	20%	50V
C638	1-102-074-00	s	CERAMIC	0.001uF	10%	50V
C639	1-102-110-00	s	CERAMIC	220pF	10%	50V
C640	1-102-074-00	s	CERAMIC	0.001uF	10%	50V
C641	1-102-110-00	s	CERAMIC	220pF	10%	50V
C651	1-130-471-00	s	MYLAR	0.001uF	5%	50V
C675	1-102-074-00	s	CERAMIC	0.001uF	10%	50V
C676	1-102-074-00	s	CERAMIC	0.001uF	10%	50V
C677	1-102-074-00	s	CERAMIC	0.001uF	10%	50V
C678	1-102-074-00	s	CERAMIC	0.001uF	10%	50V
C679	1-102-074-00	s	CERAMIC	0.001uF	10%	50V
C680	1-102-074-00	s	CERAMIC	0.001uF	10%	50V
C961	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C962	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C963	1-126-949-11	s	ELECT	220uF	20%	35V
CN112	1-564-002-11	s	PIN,CONNECTOR 3P			
CN114	1-564-005-11	o	CONNECTOR 6P,MALE			
CN115	1-506-491-11	s	CONNECTOR 12P,MALE			
CN116	1-506-492-11	o	CONNECTOR 13P,MALE			
CN961	1-568-613-11	o	SOCKET,SIL 2P			

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(AA-79X BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
D1	8-719-911-19	s	DIODE 1SS119
D2	8-719-911-19	s	DIODE 1SS119
D3	8-719-911-19	s	DIODE 1SS119
D4	8-719-911-19	s	DIODE 1SS119
IC101	8-759-153-69	s	IC UPC4572C
IC102	8-759-153-69	s	IC UPC4572C
IC103	8-759-153-69	s	IC UPC4572C
IC104	8-759-153-69	s	IC UPC4572C
J101	1-565-406-61	s	JACK,PIN 1P
J102	1-565-406-61	s	JACK,PIN 1P
J103	1-507-863-51	s	JACK,PHONE
J104	1-565-352-11	s	JACK,PIN 2P
L961	1-414-158-11	s	INDUCTOR 2.2uH
PS961	⚠1-532-984-11	s	LINK,IC 2A
R601	1-249-429-11	s	CARBON 10K 5% 1/4W
R602	1-249-429-11	s	CARBON 10K 5% 1/4W
R603	1-249-417-11	s	CARBON 1K 5% 1/4W
R604	1-249-429-11	s	CARBON 10K 5% 1/4W
R605	1-249-417-11	s	CARBON 1K 5% 1/4W
R606	1-249-417-11	s	CARBON 1K 5% 1/4W
R607	1-249-429-11	s	CARBON 10K 5% 1/4W
R608	1-249-417-11	s	CARBON 1K 5% 1/4W
R609	1-249-429-11	s	CARBON 10K 5% 1/4W
R610	1-249-425-11	s	CARBON 4.7K 5% 1/4W
R611	1-249-428-11	s	CARBON 8.2K 5% 1/4W
R612	1-249-420-11	s	CARBON 1.8K 5% 1/4W
R613	1-249-439-11	s	CARBON 68K 5% 1/4W
R614	1-249-441-11	s	CARBON 100K 5% 1/4W
R615	1-249-429-11	s	CARBON 10K 5% 1/4W
R616	1-249-430-11	s	CARBON 12K 5% 1/4W
R617	1-249-439-11	s	CARBON 68K 5% 1/4W
R618	1-249-418-11	s	CARBON 1.2K 5% 1/4W
R619	1-249-425-11	s	CARBON 4.7K 5% 1/4W
R620	1-249-428-11	s	CARBON 8.2K 5% 1/4W
R621	1-249-420-11	s	CARBON 1.8K 5% 1/4W
R622	1-249-441-11	s	CARBON 100K 5% 1/4W
R623	1-249-411-11	s	CARBON 330 5% 1/4W
R624	1-249-429-11	s	CARBON 10K 5% 1/4W
R625	1-249-429-11	s	CARBON 10K 5% 1/4W
R626	1-249-411-11	s	CARBON 330 5% 1/4W
R627	1-249-417-11	s	CARBON 1K 5% 1/4W
R651	1-249-400-11	s	CARBON 39 5% 1/4W
R652	1-249-400-11	s	CARBON 39 5% 1/4W
R689	1-249-400-11	s	CARBON 39 5% 1/4W
S101	1-570-707-11	s	SWITCH,SLIDE
S102	1-570-707-11	s	SWITCH,SLIDE

AA-93 BOARD (SX-M700)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8315-509-A	o	MOUNTED CIRCUIT BOARD,AA-93
3pcs	3-186-728-01	o	NUT, L TYPE M2.6
2pcs	7-621-770-67	s	SCREW +B 2.6x6
1pc	7-628-254-20	s	SCREW +PS 2.6x8
12pcs	7-685-134-19	s	SCREW +P 2.6x8 TYPE2 NON-SLIT
1pc	3-534-313-01	s	COLLAR
C101	1-126-964-11	s	ELECT 10uF 20% 50V
C102	1-164-031-11	s	CERAMIC 33pF 5% 50V
C103	1-126-964-11	s	ELECT 10uF 20% 50V
C104	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C105	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C106	1-136-165-00	s	FILM 0.1uF 5% 50V
C107	1-136-165-00	s	FILM 0.1uF 5% 50V
C108	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C109	1-128-551-11	s	ELECT 22uF 20% 25V
C110	1-164-031-11	s	CERAMIC 33pF 5% 50V
C111	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C112	1-128-551-11	s	ELECT 22uF 20% 25V
C113	1-102-117-00	s	CERAMIC 820pF 10% 50V
C114	1-130-475-00	s	MYLAR 0.0022uF 5% 50V
C115	1-164-031-11	s	CERAMIC 33pF 5% 50V
C116	1-126-967-11	s	ELECT 47uF 20% 10V
C117	1-164-031-11	s	CERAMIC 33pF 5% 50V
C118	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C119	1-128-551-11	s	ELECT 22uF 20% 25V
C120	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C121	1-128-551-11	s	ELECT 22uF 20% 25V
C122	1-126-967-11	s	ELECT 47uF 20% 10V
C123	1-126-964-11	s	ELECT 10uF 20% 50V
C125	1-126-964-11	s	ELECT 10uF 20% 50V
C126	1-136-165-00	s	FILM 0.1uF 5% 50V
C127	1-136-165-00	s	FILM 0.1uF 5% 50V
C128	1-164-031-11	s	CERAMIC 33pF 5% 50V
C129	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C130	1-128-551-11	s	ELECT 22uF 20% 25V
C131	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C132	1-128-551-11	s	ELECT 22uF 20% 25V
C133	1-102-117-00	s	CERAMIC 820pF 10% 50V
C134	1-130-475-00	s	MYLAR 0.0022uF 5% 50V
C135	1-164-031-11	s	CERAMIC 33pF 5% 50V
C136	1-126-967-11	s	ELECT 47uF 20% 10V
C137	1-126-964-11	s	ELECT 10uF 20% 50V
C138	1-136-165-00	s	FILM 0.1uF 5% 50V
C139	1-136-165-00	s	FILM 0.1uF 5% 50V
C140	1-164-031-11	s	CERAMIC 33pF 5% 50V
C141	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C142	1-128-551-11	s	ELECT 22uF 20% 25V
C143	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C144	1-128-551-11	s	ELECT 22uF 20% 25V
C145	1-102-117-00	s	CERAMIC 820pF 10% 50V
C146	1-130-475-00	s	MYLAR 0.0022uF 5% 50V
C147	1-164-031-11	s	CERAMIC 33pF 5% 50V
C148	1-126-967-11	s	ELECT 47uF 20% 10V
C149	1-126-964-11	s	ELECT 10uF 20% 50V
C150	1-136-165-00	s	FILM 0.1uF 5% 50V
C151	1-136-165-00	s	FILM 0.1uF 5% 50V
C152	1-164-031-11	s	CERAMIC 33pF 5% 50V
C153	1-130-483-00	s	MYLAR 0.01uF 5% 50V

(AA-93 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description			
C154	1-128-551-11	s	ELECT	22uF	20%	25V
C155	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C156	1-128-551-11	s	ELECT	22uF	20%	25V
C157	1-102-117-00	s	CERAMIC	820pF	10%	50V
C158	1-130-475-00	s	MYLAR	0.0022uF	5%	50V
C159	1-164-031-11	s	CERAMIC	33pF	5%	50V
C160	1-126-967-11	s	ELECT	47uF	20%	10V
C161	1-126-964-11	s	ELECT	10uF	20%	50V
C162	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C163	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C164	1-136-165-00	s	FILM	0.1uF	5%	50V
C165	1-136-165-00	s	FILM	0.1uF	5%	50V
C166	1-164-031-11	s	CERAMIC	33pF	5%	50V
C167	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C168	1-128-551-11	s	ELECT	22uF	20%	25V
C169	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C170	1-128-551-11	s	ELECT	22uF	20%	25V
C171	1-102-117-00	s	CERAMIC	820pF	10%	50V
C172	1-130-475-00	s	MYLAR	0.0022uF	5%	50V
C173	1-164-031-11	s	CERAMIC	33pF	5%	50V
C174	1-126-967-11	s	ELECT	47uF	20%	10V
C175	1-126-964-11	s	ELECT	10uF	20%	50V
C176	1-136-165-00	s	FILM	0.1uF	5%	50V
C177	1-136-165-00	s	FILM	0.1uF	5%	50V
C178	1-164-031-11	s	CERAMIC	33pF	5%	50V
C179	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C180	1-128-551-11	s	ELECT	22uF	20%	25V
C181	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C182	1-128-551-11	s	ELECT	22uF	20%	25V
C183	1-102-117-00	s	CERAMIC	820pF	10%	50V
C184	1-130-475-00	s	MYLAR	0.0022uF	5%	50V
C185	1-164-031-11	s	CERAMIC	33pF	5%	50V
C186	1-126-967-11	s	ELECT	47uF	20%	10V
C187	1-126-964-11	s	ELECT	10uF	20%	50V
C188	1-136-165-00	s	FILM	0.1uF	5%	50V
C189	1-136-165-00	s	FILM	0.1uF	5%	50V
C190	1-164-031-11	s	CERAMIC	33pF	5%	50V
C191	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C192	1-128-551-11	s	ELECT	22uF	20%	25V
C193	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C194	1-128-551-11	s	ELECT	22uF	20%	25V
C195	1-102-117-00	s	CERAMIC	820pF	10%	50V
C196	1-164-031-11	s	CERAMIC	33pF	5%	50V
C197	1-126-967-11	s	ELECT	47uF	20%	10V
C198	1-130-475-00	s	MYLAR	0.0022uF	5%	50V
C201	1-126-964-11	s	ELECT	10uF	20%	50V
C202	1-102-112-00	s	CERAMIC	330pF	10%	50V
C203	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C204	1-128-551-11	s	ELECT	22uF	20%	25V
C205	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C206	1-128-551-11	s	ELECT	22uF	20%	25V
C207	1-126-964-11	s	ELECT	10uF	20%	50V
C208	1-126-964-11	s	ELECT	10uF	20%	50V
C209	1-102-112-00	s	CERAMIC	330pF	10%	50V
C210	1-126-964-11	s	ELECT	10uF	20%	50V
C211	1-126-964-11	s	ELECT	10uF	20%	50V
C212	1-102-112-00	s	CERAMIC	330pF	10%	50V
C213	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C214	1-128-551-11	s	ELECT	22uF	20%	25V

(AA-93 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description			
C215	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C216	1-128-551-11	s	ELECT	22uF	20%	25V
C217	1-126-964-11	s	ELECT	10uF	20%	50V
C218	1-126-964-11	s	ELECT	10uF	20%	50V
C219	1-102-112-00	s	CERAMIC	330pF	10%	50V
C220	1-126-964-11	s	ELECT	10uF	20%	50V
C221	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C222	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C223	1-126-960-11	s	ELECT	1uF	20%	50V
C224	1-126-964-11	s	ELECT	10uF	20%	50V
C225	1-102-108-00	s	CERAMIC	150pF	10%	50V
C226	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C227	1-126-967-11	s	ELECT	47uF	20%	10V
C228	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C229	1-126-967-11	s	ELECT	47uF	20%	10V
C230	1-126-964-11	s	ELECT	10uF	20%	50V
C231	1-126-963-11	s	ELECT	4.7uF	20%	50V
C232	1-126-960-11	s	ELECT	1uF	20%	50V
C233	1-102-108-00	s	CERAMIC	150pF	10%	50V
C234	1-126-960-11	s	ELECT	1uF	20%	50V
C235	1-126-964-11	s	ELECT	10uF	20%	50V
C236	1-126-933-11	s	ELECT	100uF	20%	16V
C251	1-126-960-11	s	ELECT	1uF	20%	50V
C252	1-126-964-11	s	ELECT	10uF	20%	50V
C253	1-102-108-00	s	CERAMIC	150pF	10%	50V
C254	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C255	1-126-967-11	s	ELECT	47uF	20%	10V
C256	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C257	1-126-967-11	s	ELECT	47uF	20%	10V
C258	1-126-964-11	s	ELECT	10uF	20%	50V
C259	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C260	1-126-960-11	s	ELECT	1uF	20%	50V
C261	1-102-108-00	s	CERAMIC	150pF	10%	50V
C262	1-126-960-11	s	ELECT	1uF	20%	50V
C263	1-126-964-11	s	ELECT	10uF	20%	50V
C264	1-126-933-11	s	ELECT	100uF	20%	16V
C265	1-126-960-11	s	ELECT	1uF	20%	50V
C266	1-126-964-11	s	ELECT	10uF	20%	50V
C267	1-102-108-00	s	CERAMIC	150pF	10%	50V
C268	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C269	1-126-967-11	s	ELECT	47uF	20%	10V
C270	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C271	1-126-967-11	s	ELECT	47uF	20%	10V
C272	1-126-964-11	s	ELECT	10uF	20%	50V
C273	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C274	1-126-960-11	s	ELECT	1uF	20%	50V
C275	1-102-108-00	s	CERAMIC	150pF	10%	50V
C276	1-126-960-11	s	ELECT	1uF	20%	50V
C277	1-126-964-11	s	ELECT	10uF	20%	50V
C278	1-126-933-11	s	ELECT	100uF	20%	16V
C279	1-102-110-00	s	CERAMIC	220pF	10%	50V
C280	1-102-110-00	s	CERAMIC	220pF	10%	50V
C301	1-102-112-00	s	CERAMIC	330pF	10%	50V
C302	1-126-964-11	s	ELECT	10uF	20%	50V
C303	1-102-112-00	s	CERAMIC	330pF	10%	50V
C304	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C305	1-128-551-11	s	ELECT	22uF	20%	25V
C306	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C307	1-128-551-11	s	ELECT	22uF	20%	25V

(AA-93 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description			
C308	1-126-964-11	s	ELECT	10uF	20%	50V
C309	1-126-964-11	s	ELECT	10uF	20%	50V
C310	1-126-964-11	s	ELECT	10uF	20%	50V
C311	1-102-112-00	s	CERAMIC	330pF	10%	50V
C312	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C313	1-128-551-11	s	ELECT	22uF	20%	25V
C314	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C315	1-128-551-11	s	ELECT	22uF	20%	25V
C316	1-126-964-11	s	ELECT	10uF	20%	50V
C317	1-126-964-11	s	ELECT	10uF	20%	50V
C318	1-102-106-00	s	CERAMIC	100pF	10%	50V
C319	1-126-964-11	s	ELECT	10uF	20%	50V
C320	1-126-960-11	s	ELECT	1uF	20%	50V
C321	1-126-964-11	s	ELECT	10uF	20%	50V
C322	1-102-108-00	s	CERAMIC	150pF	10%	50V
C323	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C324	1-126-967-11	s	ELECT	47uF	20%	10V
C325	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C326	1-126-967-11	s	ELECT	47uF	20%	10V
C327	1-126-964-11	s	ELECT	10uF	20%	50V
C328	1-126-963-11	s	ELECT	4.7uF	20%	50V
C329	1-102-108-00	s	CERAMIC	150pF	10%	50V
C330	1-126-960-11	s	ELECT	1uF	20%	50V
C331	1-126-960-11	s	ELECT	1uF	20%	50V
C332	1-126-964-11	s	ELECT	10uF	20%	50V
C333	1-126-933-11	s	ELECT	100uF	20%	16V
C334	1-136-165-00	s	FILM	0.1uF	5%	50V
C335	1-136-165-00	s	FILM	0.1uF	5%	50V
C336	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C337	1-126-964-11	s	ELECT	10uF	20%	50V
C338	1-164-031-11	s	CERAMIC	33pF	5%	50V
C339	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C340	1-126-964-11	s	ELECT	10uF	20%	50V
C341	1-102-117-00	s	CERAMIC	820pF	10%	50V
C342	1-130-475-00	s	MYLAR	0.0022uF	5%	50V
C343	1-164-031-11	s	CERAMIC	33pF	5%	50V
C344	1-126-967-11	s	ELECT	47uF	20%	10V
C345	1-126-964-11	s	ELECT	10uF	20%	50V
C401	1-164-031-11	s	CERAMIC	33pF	5%	50V
C402	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C403	1-126-967-11	s	ELECT	47uF	20%	10V
C404	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C405	1-126-967-11	s	ELECT	47uF	20%	10V
C406	1-126-933-11	s	ELECT	100uF	20%	16V
C407	1-164-031-11	s	CERAMIC	33pF	5%	50V
C408	1-126-933-11	s	ELECT	100uF	20%	16V
C409	1-164-031-11	s	CERAMIC	33pF	5%	50V
C410	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C411	1-126-967-11	s	ELECT	47uF	20%	10V
C412	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C413	1-126-967-11	s	ELECT	47uF	20%	10V
C414	1-126-933-11	s	ELECT	100uF	20%	16V
C415	1-164-031-11	s	CERAMIC	33pF	5%	50V
C416	1-126-933-11	s	ELECT	100uF	20%	16V
C417	1-164-031-11	s	CERAMIC	33pF	5%	50V
C418	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C419	1-126-967-11	s	ELECT	47uF	20%	10V
C420	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C421	1-126-967-11	s	ELECT	47uF	20%	10V

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Ref. No. or Q'ty	Part No.	SP	Description			
C422	1-126-933-11	s	ELECT	100uF	20%	16V
C423	1-164-031-11	s	CERAMIC	33pF	5%	50V
C424	1-126-933-11	s	ELECT	100uF	20%	16V
C425	1-164-031-11	s	CERAMIC	33pF	5%	50V
C426	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C427	1-126-967-11	s	ELECT	47uF	20%	10V
C428	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C429	1-126-967-11	s	ELECT	47uF	20%	10V
C430	1-126-933-11	s	ELECT	100uF	20%	16V
C431	1-164-031-11	s	CERAMIC	33pF	5%	50V
C432	1-126-933-11	s	ELECT	100uF	20%	16V
C433	1-164-031-11	s	CERAMIC	33pF	5%	50V
C434	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C435	1-126-967-11	s	ELECT	47uF	20%	10V
C436	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C437	1-126-967-11	s	ELECT	47uF	20%	10V
C438	1-126-933-11	s	ELECT	100uF	20%	16V
C439	1-164-031-11	s	CERAMIC	33pF	5%	50V
C440	1-126-933-11	s	ELECT	100uF	20%	16V
C441	1-164-031-11	s	CERAMIC	33pF	5%	50V
C442	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C443	1-126-967-11	s	ELECT	47uF	20%	10V
C444	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C445	1-126-967-11	s	ELECT	47uF	20%	10V
C446	1-126-933-11	s	ELECT	100uF	20%	16V
C447	1-164-031-11	s	CERAMIC	33pF	5%	50V
C448	1-126-933-11	s	ELECT	100uF	20%	16V
C449	1-164-031-11	s	CERAMIC	33pF	5%	50V
C450	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C451	1-126-967-11	s	ELECT	47uF	20%	10V
C452	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C453	1-126-967-11	s	ELECT	47uF	20%	10V
C454	1-126-933-11	s	ELECT	100uF	20%	16V
C455	1-164-031-11	s	CERAMIC	33pF	5%	50V
C456	1-126-933-11	s	ELECT	100uF	20%	16V
C457	1-126-960-11	s	ELECT	1uF	20%	50V
C458	1-126-960-11	s	ELECT	1uF	20%	50V
C459	1-126-960-11	s	ELECT	1uF	20%	50V
C460	1-126-960-11	s	ELECT	1uF	20%	50V
C461	1-126-960-11	s	ELECT	1uF	20%	50V
C462	1-126-960-11	s	ELECT	1uF	20%	50V
C463	1-126-960-11	s	ELECT	1uF	20%	50V
C464	1-126-960-11	s	ELECT	1uF	20%	50V
C465	1-126-960-11	s	ELECT	1uF	20%	50V
C466	1-126-960-11	s	ELECT	1uF	20%	50V
C467	1-126-960-11	s	ELECT	1uF	20%	50V
C468	1-126-960-11	s	ELECT	1uF	20%	50V
C469	1-126-960-11	s	ELECT	1uF	20%	50V
C470	1-126-960-11	s	ELECT	1uF	20%	50V
C551	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C552	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C553	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C554	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C555	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C901	1-126-925-11	s	ELECT	470uF	20%	10V
C902	1-126-925-11	s	ELECT	470uF	20%	10V
C903	1-104-664-11	s	ELECT	47uF	20%	25V
C904	1-104-664-11	s	ELECT	47uF	20%	25V
C905	1-127-487-00	s	ELECT SOLID	4.7uF	20%	10V

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Ref. No. or Q'ty	Part No.	SP	Description
C906	1-126-952-11	s	ELECT 1000uF 20% 35V
C907	1-126-953-11	s	ELECT 2200uF 20% 35V
C908	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C909	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C910	1-126-953-11	s	ELECT 2200uF 20% 35V
C911	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C912	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C913	1-126-953-11	s	ELECT 2200uF 20% 35V
C914	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C915	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C916	1-126-953-11	s	ELECT 2200uF 20% 35V
C917	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C918	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C919	1-126-953-11	s	ELECT 2200uF 20% 35V
C920	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C921	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C922	1-126-953-11	s	ELECT 2200uF 20% 35V
C923	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C924	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C925	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C926	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C927	1-126-952-11	s	ELECT 1000uF 20% 35V
CN10	1-564-005-11	o	CONNECTOR 6P,MALE
CN11	1-766-855-11	o	CONNECTOR,RP13A TYPE
CN12	1-766-855-11	o	CONNECTOR,RP13A TYPE
CN13	1-766-855-11	o	CONNECTOR,RP13A TYPE
CN14	1-766-855-11	o	CONNECTOR,RP13A TYPE
CN15	1-564-011-11	o	CONNECTOR 12P,MALE
CN16	1-506-478-11	s	CONNECTOR 13P,MALE
CN17	1-506-474-11	s	CONNECTOR 9P,MALE
CN18	1-564-009-11	o	PIN,CONNECTOR 10P
CN19	1-566-562-11	o	CONNECTOR(RIBON CABLE) 26P
CN20	1-506-474-11	s	CONNECTOR 9P,MALE
CN21	1-766-855-11	o	CONNECTOR,RP13A TYPE
CN22	1-766-855-11	o	CONNECTOR,RP13A TYPE
CN23	1-564-002-11	s	PIN,CONNECTOR 3P
CN901	1-580-838-11	o	PIN,CONNECTOR(PC BOARD) 4P
CN902	1-508-743-00	o	PIN,CONNECTOR 5P
CN911	1-568-613-11	o	SOCKET,SIL 2P
CN912	1-568-613-11	o	SOCKET,SIL 2P
CN913	1-568-613-11	o	SOCKET,SIL 2P
CN914	1-568-613-11	o	SOCKET,SIL 2P
CN915	1-568-613-11	o	SOCKET,SIL 2P
CN916	1-568-613-11	o	SOCKET,SIL 2P
D201	8-719-911-19	s	DIODE 1SS119
D251	8-719-911-19	s	DIODE 1SS119
D252	8-719-911-19	s	DIODE 1SS119
D301	8-719-911-19	s	DIODE 1SS119
D901	8-719-110-35	s	DIODE RD13ES-T1B1
D902	8-719-110-44	s	DIODE RD16ES-B1
IC101	8-759-356-16	s	IC NJM4556AD
IC102	8-759-007-23	s	IC MC74HC4316N
IC103	8-759-710-59	s	IC NJM4580D-D
IC104	8-759-710-59	s	IC NJM4580D-D
IC105	8-759-710-59	s	IC NJM4580D-D
IC106	8-759-710-59	s	IC NJM4580D-D
IC107	8-759-007-23	s	IC MC74HC4316N

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Ref. No. or Q'ty	Part No.	SP	Description
IC108	8-759-710-59	s	IC NJM4580D-D
IC109	8-759-710-59	s	IC NJM4580D-D
IC110	8-759-710-59	s	IC NJM4580D-D
IC201	8-759-710-59	s	IC NJM4580D-D
IC202	8-759-710-59	s	IC NJM4580D-D
IC205	8-759-007-23	s	IC MC74HC4316N
IC206	8-759-710-59	s	IC NJM4580D-D
IC251	8-759-710-59	s	IC NJM4580D-D
IC252	8-759-710-59	s	IC NJM4580D-D
IC301	8-759-710-59	s	IC NJM4580D-D
IC302	8-759-710-59	s	IC NJM4580D-D
IC303	8-759-710-59	s	IC NJM4580D-D
IC304	8-759-710-59	s	IC NJM4580D-D
IC401	8-759-356-16	s	IC NJM4556AD
IC402	8-759-356-16	s	IC NJM4556AD
IC403	8-759-356-16	s	IC NJM4556AD
IC404	8-759-356-16	s	IC NJM4556AD
IC405	8-759-356-16	s	IC NJM4556AD
IC406	8-759-356-16	s	IC NJM4556AD
IC407	8-759-356-16	s	IC NJM4556AD
IC551	8-759-231-66	s	IC TC74HC4053AP
IC552	8-759-231-66	s	IC TC74HC4053AP
IC553	8-759-232-07	s	IC TC74HC04AP
IC901	8-759-998-09	s	IC S-80741AL
L903	1-414-158-11	s	INDUCTOR 2.2uH
L904	1-414-158-11	s	INDUCTOR 2.2uH
L905	1-414-158-11	s	INDUCTOR 2.2uH
L906	1-414-158-11	s	INDUCTOR 2.2uH
L907	1-414-158-11	s	INDUCTOR 2.2uH
L908	1-414-158-11	s	INDUCTOR 2.2uH
L909	1-414-158-11	s	INDUCTOR 2.2uH
PH201	9-983-170-01	s	PHOTO TRANSISTOR TLP521-2
PH202	9-983-170-01	s	PHOTO TRANSISTOR TLP521-2
PS911	⚠ 1-532-984-11	s	LINK,IC 2A
PS912	⚠ 1-532-984-11	s	LINK,IC 2A
PS913	⚠ 1-532-984-11	s	LINK,IC 2A
PS914	⚠ 1-532-984-11	s	LINK,IC 2A
PS915	⚠ 1-532-984-11	s	LINK,IC 2A
PS916	⚠ 1-532-984-11	s	LINK,IC 2A
Q201	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q202	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q203	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q251	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q252	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q253	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q254	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q255	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q256	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q301	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q302	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q303	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q901	8-729-322-38	s	TRANSISTOR 2SK975
Q902	8-729-322-38	s	TRANSISTOR 2SK975
R101	1-249-441-11	s	CARBON 100K 5% 1/4W
R102	1-249-429-11	s	CARBON 10K 5% 1/4W
R103	1-249-441-11	s	CARBON 100K 5% 1/4W
R104	1-247-895-91	s	CARBON 470K 5% 1/4W

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Ref. No. or Q'ty	Part No.	SP	Description
R105	1-249-441-11	s	CARBON 100K 5% 1/4W
R106	1-249-435-11	s	CARBON 33K 5% 1/4W
R107	1-249-430-11	s	CARBON 12K 5% 1/4W
R108	1-249-435-11	s	CARBON 33K 5% 1/4W
R109	1-249-429-11	s	CARBON 10K 5% 1/4W
R110	1-249-429-11	s	CARBON 10K 5% 1/4W
R111	1-249-435-11	s	CARBON 33K 5% 1/4W
R112	1-249-429-11	s	CARBON 10K 5% 1/4W
R113	1-249-435-11	s	CARBON 33K 5% 1/4W
R114	1-249-441-11	s	CARBON 100K 5% 1/4W
R115	1-249-400-11	s	CARBON 39 5% 1/4W
R116	1-249-431-11	s	CARBON 15K 5% 1/4W
R125	1-249-441-11	s	CARBON 100K 5% 1/4W
R126	1-249-441-11	s	CARBON 100K 5% 1/4W
R127	1-247-895-91	s	CARBON 470K 5% 1/4W
R128	1-249-441-11	s	CARBON 100K 5% 1/4W
R129	1-249-430-11	s	CARBON 12K 5% 1/4W
R130	1-249-435-11	s	CARBON 33K 5% 1/4W
R131	1-249-435-11	s	CARBON 33K 5% 1/4W
R132	1-249-429-11	s	CARBON 10K 5% 1/4W
R133	1-249-429-11	s	CARBON 10K 5% 1/4W
R134	1-249-435-11	s	CARBON 33K 5% 1/4W
R135	1-249-429-11	s	CARBON 10K 5% 1/4W
R136	1-249-441-11	s	CARBON 100K 5% 1/4W
R137	1-249-441-11	s	CARBON 100K 5% 1/4W
R138	1-247-895-91	s	CARBON 470K 5% 1/4W
R139	1-249-441-11	s	CARBON 100K 5% 1/4W
R140	1-249-430-11	s	CARBON 12K 5% 1/4W
R141	1-249-435-11	s	CARBON 33K 5% 1/4W
R142	1-249-435-11	s	CARBON 33K 5% 1/4W
R143	1-249-429-11	s	CARBON 10K 5% 1/4W
R144	1-249-429-11	s	CARBON 10K 5% 1/4W
R145	1-249-435-11	s	CARBON 33K 5% 1/4W
R146	1-249-429-11	s	CARBON 10K 5% 1/4W
R147	1-249-441-11	s	CARBON 100K 5% 1/4W
R148	1-249-441-11	s	CARBON 100K 5% 1/4W
R149	1-247-895-91	s	CARBON 470K 5% 1/4W
R150	1-249-441-11	s	CARBON 100K 5% 1/4W
R151	1-249-430-11	s	CARBON 12K 5% 1/4W
R152	1-249-435-11	s	CARBON 33K 5% 1/4W
R153	1-249-435-11	s	CARBON 33K 5% 1/4W
R154	1-249-429-11	s	CARBON 10K 5% 1/4W
R155	1-249-429-11	s	CARBON 10K 5% 1/4W
R156	1-249-435-11	s	CARBON 33K 5% 1/4W
R157	1-249-429-11	s	CARBON 10K 5% 1/4W
R158	1-249-441-11	s	CARBON 100K 5% 1/4W
R159	1-249-441-11	s	CARBON 100K 5% 1/4W
R160	1-247-895-91	s	CARBON 470K 5% 1/4W
R161	1-249-441-11	s	CARBON 100K 5% 1/4W
R162	1-249-430-11	s	CARBON 12K 5% 1/4W
R163	1-249-435-11	s	CARBON 33K 5% 1/4W
R164	1-249-435-11	s	CARBON 33K 5% 1/4W
R165	1-249-429-11	s	CARBON 10K 5% 1/4W
R166	1-249-429-11	s	CARBON 10K 5% 1/4W
R167	1-249-435-11	s	CARBON 33K 5% 1/4W
R168	1-249-429-11	s	CARBON 10K 5% 1/4W
R169	1-249-441-11	s	CARBON 100K 5% 1/4W
R170	1-249-441-11	s	CARBON 100K 5% 1/4W
R171	1-247-895-91	s	CARBON 470K 5% 1/4W

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Ref. No. or Q'ty	Part No.	SP	Description
R172	1-249-441-11	s	CARBON 100K 5% 1/4W
R173	1-249-430-11	s	CARBON 12K 5% 1/4W
R174	1-249-435-11	s	CARBON 33K 5% 1/4W
R175	1-249-435-11	s	CARBON 33K 5% 1/4W
R176	1-249-429-11	s	CARBON 10K 5% 1/4W
R177	1-249-429-11	s	CARBON 10K 5% 1/4W
R178	1-249-435-11	s	CARBON 33K 5% 1/4W
R179	1-249-429-11	s	CARBON 10K 5% 1/4W
R180	1-249-441-11	s	CARBON 100K 5% 1/4W
R181	1-249-441-11	s	CARBON 100K 5% 1/4W
R182	1-247-895-91	s	CARBON 470K 5% 1/4W
R183	1-249-441-11	s	CARBON 100K 5% 1/4W
R184	1-249-430-11	s	CARBON 12K 5% 1/4W
R185	1-249-435-11	s	CARBON 33K 5% 1/4W
R186	1-249-435-11	s	CARBON 33K 5% 1/4W
R187	1-249-429-11	s	CARBON 10K 5% 1/4W
R188	1-249-429-11	s	CARBON 10K 5% 1/4W
R189	1-249-435-11	s	CARBON 33K 5% 1/4W
R190	1-249-429-11	s	CARBON 10K 5% 1/4W
R201	1-249-441-11	s	CARBON 100K 5% 1/4W
R202	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R203	1-249-417-11	s	CARBON 1K 5% 1/4W
R204	1-249-438-11	s	CARBON 56K 5% 1/4W
R205	1-249-441-11	s	CARBON 100K 5% 1/4W
R206	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R207	1-249-417-11	s	CARBON 1K 5% 1/4W
R208	1-249-438-11	s	CARBON 56K 5% 1/4W
R209	1-249-441-11	s	CARBON 100K 5% 1/4W
R210	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R211	1-249-417-11	s	CARBON 1K 5% 1/4W
R212	1-249-438-11	s	CARBON 56K 5% 1/4W
R213	1-249-441-11	s	CARBON 100K 5% 1/4W
R214	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R215	1-249-417-11	s	CARBON 1K 5% 1/4W
R216	1-249-438-11	s	CARBON 56K 5% 1/4W
R217	1-249-441-11	s	CARBON 100K 5% 1/4W
R218	1-249-429-11	s	CARBON 10K 5% 1/4W
R219	1-249-441-11	s	CARBON 100K 5% 1/4W
R220	1-249-429-11	s	CARBON 10K 5% 1/4W
R221	1-249-429-11	s	CARBON 10K 5% 1/4W
R222	1-249-441-11	s	CARBON 100K 5% 1/4W
R223	1-249-441-11	s	CARBON 100K 5% 1/4W
R224	1-249-429-11	s	CARBON 10K 5% 1/4W
R225	1-249-411-11	s	CARBON 330 5% 1/4W
R226	1-249-429-11	s	CARBON 10K 5% 1/4W
R227	1-249-441-11	s	CARBON 100K 5% 1/4W
R228	1-249-416-11	s	CARBON 820 5% 1/4W
R229	1-249-434-11	s	CARBON 27K 5% 1/4W
R230	1-249-429-11	s	CARBON 10K 5% 1/4W
R231	1-249-429-11	s	CARBON 10K 5% 1/4W
R232	1-249-429-11	s	CARBON 10K 5% 1/4W
R233	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R234	1-247-863-91	s	CARBON 22K 5% 1/4W
R235	1-249-427-11	s	CARBON 6.8K 5% 1/4W
R236	1-247-807-31	s	CARBON 100 5% 1/4W
R237	1-247-887-00	s	CARBON 220K 5% 1/4W
R238	1-247-843-11	s	CARBON 3.3K 5% 1/4W
R239	1-249-393-11	s	CARBON 10 5% 1/4W
R251	1-249-441-11	s	CARBON 100K 5% 1/4W

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Ref. No. or Q'ty	Part No.	SP	Description
R252	1-249-429-11	s	CARBON 10K 5% 1/4W
R253	1-249-441-11	s	CARBON 100K 5% 1/4W
R254	1-249-416-11	s	CARBON 820 5% 1/4W
R255	1-249-434-11	s	CARBON 27K 5% 1/4W
R256	1-249-429-11	s	CARBON 10K 5% 1/4W
R257	1-249-441-11	s	CARBON 100K 5% 1/4W
R258	1-249-429-11	s	CARBON 10K 5% 1/4W
R259	1-249-429-11	s	CARBON 10K 5% 1/4W
R260	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R261	1-247-863-91	s	CARBON 22K 5% 1/4W
R262	1-249-427-11	s	CARBON 6.8K 5% 1/4W
R263	1-247-887-00	s	CARBON 220K 5% 1/4W
R264	1-247-843-11	s	CARBON 3.3K 5% 1/4W
R265	1-247-807-31	s	CARBON 100 5% 1/4W
R266	1-249-393-11	s	CARBON 10 5% 1/4W
R267	1-249-441-11	s	CARBON 100K 5% 1/4W
R268	1-249-429-11	s	CARBON 10K 5% 1/4W
R269	1-249-441-11	s	CARBON 100K 5% 1/4W
R270	1-249-416-11	s	CARBON 820 5% 1/4W
R271	1-249-434-11	s	CARBON 27K 5% 1/4W
R272	1-249-429-11	s	CARBON 10K 5% 1/4W
R273	1-249-441-11	s	CARBON 100K 5% 1/4W
R274	1-249-429-11	s	CARBON 10K 5% 1/4W
R275	1-249-429-11	s	CARBON 10K 5% 1/4W
R276	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R277	1-247-863-91	s	CARBON 22K 5% 1/4W
R278	1-249-427-11	s	CARBON 6.8K 5% 1/4W
R279	1-247-887-00	s	CARBON 220K 5% 1/4W
R280	1-247-843-11	s	CARBON 3.3K 5% 1/4W
R281	1-247-807-31	s	CARBON 100 5% 1/4W
R282	1-249-393-11	s	CARBON 10 5% 1/4W
R301	1-249-429-11	s	CARBON 10K 5% 1/4W
R302	1-249-429-11	s	CARBON 10K 5% 1/4W
R303	1-249-441-11	s	CARBON 100K 5% 1/4W
R304	1-249-417-11	s	CARBON 1K 5% 1/4W
R305	1-249-429-11	s	CARBON 10K 5% 1/4W
R306	1-249-425-11	s	CARBON 4.7K 5% 1/4W
R307	1-249-425-11	s	CARBON 4.7K 5% 1/4W
R308	1-249-441-11	s	CARBON 100K 5% 1/4W
R309	1-249-429-11	s	CARBON 10K 5% 1/4W
R310	1-249-429-11	s	CARBON 10K 5% 1/4W
R311	1-249-425-11	s	CARBON 4.7K 5% 1/4W
R312	1-249-429-11	s	CARBON 10K 5% 1/4W
R313	1-249-429-11	s	CARBON 10K 5% 1/4W
R314	1-249-425-11	s	CARBON 4.7K 5% 1/4W
R315	1-249-441-11	s	CARBON 100K 5% 1/4W
R316	1-249-429-11	s	CARBON 10K 5% 1/4W
R317	1-249-429-11	s	CARBON 10K 5% 1/4W
R318	1-249-411-11	s	CARBON 330 5% 1/4W
R319	1-249-429-11	s	CARBON 10K 5% 1/4W
R320	1-249-441-11	s	CARBON 100K 5% 1/4W
R321	1-249-416-11	s	CARBON 820 5% 1/4W
R322	1-249-434-11	s	CARBON 27K 5% 1/4W
R323	1-249-429-11	s	CARBON 10K 5% 1/4W
R324	1-249-429-11	s	CARBON 10K 5% 1/4W
R325	1-249-429-11	s	CARBON 10K 5% 1/4W
R326	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R327	1-247-863-91	s	CARBON 22K 5% 1/4W
R328	1-249-427-11	s	CARBON 6.8K 5% 1/4W

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Ref. No. or Q'ty	Part No.	SP	Description
R329	1-247-807-31	s	CARBON 100 5% 1/4W
R330	1-247-887-00	s	CARBON 220K 5% 1/4W
R331	1-247-843-11	s	CARBON 3.3K 5% 1/4W
R332	1-249-393-11	s	CARBON 10 5% 1/4W
R333	1-249-430-11	s	CARBON 12K 5% 1/4W
R334	1-249-435-11	s	CARBON 33K 5% 1/4W
R335	1-249-435-11	s	CARBON 33K 5% 1/4W
R336	1-249-429-11	s	CARBON 10K 5% 1/4W
R337	1-249-429-11	s	CARBON 10K 5% 1/4W
R338	1-249-435-11	s	CARBON 33K 5% 1/4W
R339	1-247-863-91	s	CARBON 22K 5% 1/4W
R340	1-249-441-11	s	CARBON 100K 5% 1/4W
R341	1-249-429-11	s	CARBON 10K 5% 1/4W
R342	1-249-429-11	s	CARBON 10K 5% 1/4W
R343	1-249-429-11	s	CARBON 10K 5% 1/4W
R344	1-249-430-11	s	CARBON 12K 5% 1/4W
R401	1-249-436-11	s	CARBON 39K 5% 1/4W
R402	1-249-435-11	s	CARBON 33K 5% 1/4W
R403	1-249-429-11	s	CARBON 10K 5% 1/4W
R404	1-249-436-11	s	CARBON 39K 5% 1/4W
R405	1-249-435-11	s	CARBON 33K 5% 1/4W
R406	1-249-429-11	s	CARBON 10K 5% 1/4W
R407	1-249-436-11	s	CARBON 39K 5% 1/4W
R408	1-249-435-11	s	CARBON 33K 5% 1/4W
R409	1-249-429-11	s	CARBON 10K 5% 1/4W
R410	1-249-436-11	s	CARBON 39K 5% 1/4W
R411	1-249-435-11	s	CARBON 33K 5% 1/4W
R412	1-249-429-11	s	CARBON 10K 5% 1/4W
R413	1-249-436-11	s	CARBON 39K 5% 1/4W
R414	1-249-435-11	s	CARBON 33K 5% 1/4W
R415	1-249-429-11	s	CARBON 10K 5% 1/4W
R416	1-249-436-11	s	CARBON 39K 5% 1/4W
R417	1-249-435-11	s	CARBON 33K 5% 1/4W
R418	1-249-429-11	s	CARBON 10K 5% 1/4W
R419	1-249-436-11	s	CARBON 39K 5% 1/4W
R420	1-249-435-11	s	CARBON 33K 5% 1/4W
R421	1-249-429-11	s	CARBON 10K 5% 1/4W
R422	1-249-436-11	s	CARBON 39K 5% 1/4W
R423	1-249-435-11	s	CARBON 33K 5% 1/4W
R424	1-249-429-11	s	CARBON 10K 5% 1/4W
R425	1-249-436-11	s	CARBON 39K 5% 1/4W
R426	1-249-435-11	s	CARBON 33K 5% 1/4W
R427	1-249-429-11	s	CARBON 10K 5% 1/4W
R428	1-249-436-11	s	CARBON 39K 5% 1/4W
R429	1-249-435-11	s	CARBON 33K 5% 1/4W
R430	1-249-429-11	s	CARBON 10K 5% 1/4W
R431	1-249-436-11	s	CARBON 39K 5% 1/4W
R432	1-249-435-11	s	CARBON 33K 5% 1/4W
R433	1-249-429-11	s	CARBON 10K 5% 1/4W
R434	1-249-436-11	s	CARBON 39K 5% 1/4W
R435	1-249-435-11	s	CARBON 33K 5% 1/4W
R436	1-249-429-11	s	CARBON 10K 5% 1/4W
R437	1-249-436-11	s	CARBON 39K 5% 1/4W
R438	1-249-435-11	s	CARBON 33K 5% 1/4W
R439	1-249-429-11	s	CARBON 10K 5% 1/4W
R440	1-249-436-11	s	CARBON 39K 5% 1/4W
R441	1-249-435-11	s	CARBON 33K 5% 1/4W
R442	1-249-429-11	s	CARBON 10K 5% 1/4W
R501	1-249-400-11	s	CARBON 39 5% 1/4W

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Ref. No. or Q'ty	Part No.	SP	Description		
R502	1-249-400-11	s	CARBON 39	5%	1/4W
R503	1-249-400-11	s	CARBON 39	5%	1/4W
R504	1-249-400-11	s	CARBON 39	5%	1/4W
R505	1-249-400-11	s	CARBON 39	5%	1/4W
R506	1-249-400-11	s	CARBON 39	5%	1/4W
R507	1-249-400-11	s	CARBON 39	5%	1/4W
R508	1-249-400-11	s	CARBON 39	5%	1/4W
R509	1-249-400-11	s	CARBON 39	5%	1/4W
R510	1-249-400-11	s	CARBON 39	5%	1/4W
R511	1-249-400-11	s	CARBON 39	5%	1/4W
R512	1-249-400-11	s	CARBON 39	5%	1/4W
R513	1-249-400-11	s	CARBON 39	5%	1/4W
R514	1-249-400-11	s	CARBON 39	5%	1/4W
R515	1-249-400-11	s	CARBON 39	5%	1/4W
R516	1-249-400-11	s	CARBON 39	5%	1/4W
R517	1-249-400-11	s	CARBON 39	5%	1/4W
R518	1-249-400-11	s	CARBON 39	5%	1/4W
R519	1-249-400-11	s	CARBON 39	5%	1/4W
R520	1-249-400-11	s	CARBON 39	5%	1/4W
R521	1-249-400-11	s	CARBON 39	5%	1/4W
R522	1-249-400-11	s	CARBON 39	5%	1/4W
R523	1-249-400-11	s	CARBON 39	5%	1/4W
R524	1-249-400-11	s	CARBON 39	5%	1/4W
R525	1-249-400-11	s	CARBON 39	5%	1/4W
R526	1-249-400-11	s	CARBON 39	5%	1/4W
R527	1-249-400-11	s	CARBON 39	5%	1/4W
R528	1-249-400-11	s	CARBON 39	5%	1/4W
R529	1-249-400-11	s	CARBON 39	5%	1/4W
R530	1-249-400-11	s	CARBON 39	5%	1/4W
R531	1-249-400-11	s	CARBON 39	5%	1/4W
R532	1-249-400-11	s	CARBON 39	5%	1/4W
R533	1-249-400-11	s	CARBON 39	5%	1/4W
R534	1-249-400-11	s	CARBON 39	5%	1/4W
R535	1-249-400-11	s	CARBON 39	5%	1/4W
R551	1-247-807-31	s	CARBON 100	5%	1/4W
R552	1-247-807-31	s	CARBON 100	5%	1/4W
R553	1-247-807-31	s	CARBON 100	5%	1/4W
R554	1-249-441-11	s	CARBON 100K	5%	1/4W
R555	1-249-441-11	s	CARBON 100K	5%	1/4W
R556	1-249-441-11	s	CARBON 100K	5%	1/4W
R557	1-249-435-11	s	CARBON 33K	5%	1/4W
R558	1-249-435-11	s	CARBON 33K	5%	1/4W
R559	1-249-435-11	s	CARBON 33K	5%	1/4W
R560	1-249-441-11	s	CARBON 100K	5%	1/4W
R561	1-249-441-11	s	CARBON 100K	5%	1/4W
R562	1-249-441-11	s	CARBON 100K	5%	1/4W
R563	1-247-807-31	s	CARBON 100	5%	1/4W
R564	1-247-807-31	s	CARBON 100	5%	1/4W
R565	1-247-807-31	s	CARBON 100	5%	1/4W
R566	1-249-441-11	s	CARBON 100K	5%	1/4W
R567	1-249-441-11	s	CARBON 100K	5%	1/4W
R568	1-249-441-11	s	CARBON 100K	5%	1/4W
R569	1-249-435-11	s	CARBON 33K	5%	1/4W
R570	1-249-435-11	s	CARBON 33K	5%	1/4W
R571	1-249-435-11	s	CARBON 33K	5%	1/4W
R572	1-249-441-11	s	CARBON 100K	5%	1/4W
R573	1-249-441-11	s	CARBON 100K	5%	1/4W
R574	1-249-441-11	s	CARBON 100K	5%	1/4W
R575	1-249-441-11	s	CARBON 100K	5%	1/4W

(AA-93 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description		
R576	1-249-441-11	s	CARBON 100K	5%	1/4W
R577	1-249-441-11	s	CARBON 100K	5%	1/4W
R578	1-249-441-11	s	CARBON 100K	5%	1/4W
R579	1-249-441-11	s	CARBON 100K	5%	1/4W
R580	1-249-441-11	s	CARBON 100K	5%	1/4W
R901	1-249-429-11	s	CARBON 10K	5%	1/4W
R902	1-249-429-11	s	CARBON 10K	5%	1/4W
R903	1-249-432-11	s	CARBON 18K	5%	1/4W
R905	1-249-429-11	s	CARBON 10K	5%	1/4W

AA-93X BOARD (SX-M100)

Ref. No. or Q'ty	Part No.	SP	Description			
1pc	A-8313-734-A	o	MOUNTED CIRCUIT BOARD,AA-93X			
3pcs	3-186-728-01	o	NUT, L TYPE M2.6			
2pcs	7-621-770-67	s	SCREW +B 2.6x6			
1pc	7-628-254-20	s	SCREW +PS 2.6x8			
8pcs	7-685-134-19	s	SCREW +P 2.6x8 TYPE2 NON-SLIT			
1pc	3-534-313-01	s	COLLAR			
C101	1-126-964-11	s	ELECT	10uF	20%	50V
C102	1-164-031-11	s	CERAMIC	33pF	5%	50V
C103	1-126-964-11	s	ELECT	10uF	20%	50V
C104	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C105	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C106	1-136-165-00	s	FILM	0.1uF	5%	50V
C107	1-136-165-00	s	FILM	0.1uF	5%	50V
C108	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C109	1-128-551-11	s	ELECT	22uF	20%	25V
C110	1-164-031-11	s	CERAMIC	33pF	5%	50V
C111	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C112	1-128-551-11	s	ELECT	22uF	20%	25V
C113	1-102-117-00	s	CERAMIC	820pF	10%	50V
C114	1-130-475-00	s	MYLAR	0.0022uF	5%	50V
C115	1-164-031-11	s	CERAMIC	33pF	5%	50V
C116	1-126-967-11	s	ELECT	47uF	20%	10V
C117	1-164-031-11	s	CERAMIC	33pF	5%	50V
C118	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C119	1-128-551-11	s	ELECT	22uF	20%	25V
C120	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C121	1-128-551-11	s	ELECT	22uF	20%	25V
C123	1-126-964-11	s	ELECT	10uF	20%	50V
C201	1-126-964-11	s	ELECT	10uF	20%	50V
C202	1-102-112-00	s	CERAMIC	330pF	10%	50V
C203	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C204	1-128-551-11	s	ELECT	22uF	20%	25V
C205	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C206	1-128-551-11	s	ELECT	22uF	20%	25V
C207	1-126-964-11	s	ELECT	10uF	20%	50V
C208	1-126-964-11	s	ELECT	10uF	20%	50V
C209	1-102-112-00	s	CERAMIC	330pF	10%	50V
C210	1-126-964-11	s	ELECT	10uF	20%	50V
C211	1-126-964-11	s	ELECT	10uF	20%	50V
C212	1-102-112-00	s	CERAMIC	330pF	10%	50V
C213	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C214	1-128-551-11	s	ELECT	22uF	20%	25V
C215	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C216	1-128-551-11	s	ELECT	22uF	20%	25V
C217	1-126-964-11	s	ELECT	10uF	20%	50V
C218	1-126-964-11	s	ELECT	10uF	20%	50V
C219	1-102-112-00	s	CERAMIC	330pF	10%	50V
C220	1-126-964-11	s	ELECT	10uF	20%	50V
C221	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C222	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C223	1-126-960-11	s	ELECT	1uF	20%	50V
C224	1-126-964-11	s	ELECT	10uF	20%	50V
C225	1-102-108-00	s	CERAMIC	150pF	10%	50V
C226	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C227	1-126-967-11	s	ELECT	47uF	20%	10V
C228	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C229	1-126-967-11	s	ELECT	47uF	20%	10V
C230	1-126-964-11	s	ELECT	10uF	20%	50V

(AA-93X BOARD)

Ref. No. or Q'ty	Part No.	SP	Description			
C231	1-126-963-11	s	ELECT	4.7uF	20%	50V
C232	1-126-960-11	s	ELECT	1uF	20%	50V
C233	1-102-108-00	s	CERAMIC	150pF	10%	50V
C234	1-126-960-11	s	ELECT	1uF	20%	50V
C235	1-126-964-11	s	ELECT	10uF	20%	50V
C236	1-126-933-11	s	ELECT	100uF	20%	16V
C251	1-126-960-11	s	ELECT	1uF	20%	50V
C252	1-126-964-11	s	ELECT	10uF	20%	50V
C253	1-102-108-00	s	CERAMIC	150pF	10%	50V
C254	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C255	1-126-967-11	s	ELECT	47uF	20%	10V
C256	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C257	1-126-967-11	s	ELECT	47uF	20%	10V
C258	1-126-964-11	s	ELECT	10uF	20%	50V
C259	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C260	1-126-960-11	s	ELECT	1uF	20%	50V
C261	1-102-108-00	s	CERAMIC	150pF	10%	50V
C262	1-126-960-11	s	ELECT	1uF	20%	50V
C263	1-126-964-11	s	ELECT	10uF	20%	50V
C264	1-126-933-11	s	ELECT	100uF	20%	16V
C265	1-126-960-11	s	ELECT	1uF	20%	50V
C266	1-126-964-11	s	ELECT	10uF	20%	50V
C267	1-102-108-00	s	CERAMIC	150pF	10%	50V
C268	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C269	1-126-967-11	s	ELECT	47uF	20%	10V
C270	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C271	1-126-967-11	s	ELECT	47uF	20%	10V
C272	1-126-964-11	s	ELECT	10uF	20%	50V
C273	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C274	1-126-960-11	s	ELECT	1uF	20%	50V
C275	1-102-108-00	s	CERAMIC	150pF	10%	50V
C276	1-126-960-11	s	ELECT	1uF	20%	50V
C277	1-126-964-11	s	ELECT	10uF	20%	50V
C278	1-126-933-11	s	ELECT	100uF	20%	16V
C279	1-102-110-00	s	CERAMIC	220pF	10%	50V
C280	1-102-110-00	s	CERAMIC	220pF	10%	50V
C301	1-102-112-00	s	CERAMIC	330pF	10%	50V
C302	1-126-964-11	s	ELECT	10uF	20%	50V
C303	1-102-112-00	s	CERAMIC	330pF	10%	50V
C304	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C305	1-128-551-11	s	ELECT	22uF	20%	25V
C306	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C307	1-128-551-11	s	ELECT	22uF	20%	25V
C308	1-126-964-11	s	ELECT	10uF	20%	50V
C309	1-126-964-11	s	ELECT	10uF	20%	50V
C310	1-126-964-11	s	ELECT	10uF	20%	50V
C311	1-102-112-00	s	CERAMIC	330pF	10%	50V
C312	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C313	1-128-551-11	s	ELECT	22uF	20%	25V
C314	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C315	1-128-551-11	s	ELECT	22uF	20%	25V
C316	1-126-964-11	s	ELECT	10uF	20%	50V
C317	1-126-964-11	s	ELECT	10uF	20%	50V
C318	1-102-106-00	s	CERAMIC	100pF	10%	50V
C319	1-126-964-11	s	ELECT	10uF	20%	50V
C320	1-126-960-11	s	ELECT	1uF	20%	50V
C321	1-126-964-11	s	ELECT	10uF	20%	50V
C322	1-102-108-00	s	CERAMIC	150pF	10%	50V
C323	1-130-483-00	s	MYLAR	0.01uF	5%	50V

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Ref. No. or Q'ty	Part No.	SP	Description
C324	1-126-967-11	s	ELECT 47uF 20% 10V
C325	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C326	1-126-967-11	s	ELECT 47uF 20% 10V
C327	1-126-964-11	s	ELECT 10uF 20% 50V
C328	1-126-963-11	s	ELECT 4.7uF 20% 50V
C329	1-102-108-00	s	CERAMIC 150pF 10% 50V
C330	1-126-960-11	s	ELECT 1uF 20% 50V
C331	1-126-960-11	s	ELECT 1uF 20% 50V
C332	1-126-964-11	s	ELECT 10uF 20% 50V
C333	1-126-933-11	s	ELECT 100uF 20% 16V
C334	1-136-165-00	s	FILM 0.1uF 5% 50V
C335	1-136-165-00	s	FILM 0.1uF 5% 50V
C336	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C337	1-126-964-11	s	ELECT 10uF 20% 50V
C338	1-164-031-11	s	CERAMIC 33pF 5% 50V
C339	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C340	1-126-964-11	s	ELECT 10uF 20% 50V
C341	1-102-117-00	s	CERAMIC 820pF 10% 50V
C342	1-130-475-00	s	MYLAR 0.0022uF 5% 50V
C343	1-164-031-11	s	CERAMIC 33pF 5% 50V
C344	1-126-967-11	s	ELECT 47uF 20% 10V
C345	1-126-964-11	s	ELECT 10uF 20% 50V
C401	1-164-031-11	s	CERAMIC 33pF 5% 50V
C402	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C403	1-126-967-11	s	ELECT 47uF 20% 10V
C404	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C405	1-126-967-11	s	ELECT 47uF 20% 10V
C406	1-126-933-11	s	ELECT 100uF 20% 16V
C407	1-164-031-11	s	CERAMIC 33pF 5% 50V
C408	1-126-933-11	s	ELECT 100uF 20% 16V
C457	1-126-960-11	s	ELECT 1uF 20% 50V
C458	1-126-960-11	s	ELECT 1uF 20% 50V
C901	1-126-925-11	s	ELECT 470uF 20% 10V
C902	1-126-925-11	s	ELECT 470uF 20% 10V
C903	1-104-664-11	s	ELECT 47uF 20% 25V
C904	1-104-664-11	s	ELECT 47uF 20% 25V
C905	1-127-487-00	s	ELECT SOLID 4.7uF 20% 10V
C906	1-126-952-11	s	ELECT 1000uF 20% 35V
C907	1-126-953-11	s	ELECT 2200uF 20% 35V
C908	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C909	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C910	1-126-953-11	s	ELECT 2200uF 20% 35V
C911	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C912	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C913	1-126-953-11	s	ELECT 2200uF 20% 35V
C914	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C915	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C916	1-126-953-11	s	ELECT 2200uF 20% 35V
C917	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C918	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C925	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C926	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C927	1-126-952-11	s	ELECT 1000uF 20% 35V
CN10	1-564-005-11	o	CONNECTOR 6P,MALE
CN11	1-766-855-11	o	CONNECTOR,RP13A TYPE
CN12	1-766-855-11	o	CONNECTOR,RP13A TYPE
CN13	1-766-855-11	o	CONNECTOR,RP13A TYPE
CN14	1-766-855-11	o	CONNECTOR,RP13A TYPE

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Ref. No. or Q'ty	Part No.	SP	Description
CN15	1-564-011-11	o	CONNECTOR 12P,MALE
CN16	1-506-478-11	s	CONNECTOR 13P,MALE
CN17	1-506-474-11	s	CONNECTOR 9P,MALE
CN18	1-564-009-11	o	PIN,CONNECTOR 10P
CN19	1-566-562-11	o	CONNECTOR(RIBON CABLE) 26P
CN20	1-506-474-11	s	CONNECTOR 9P,MALE
CN23	1-564-002-11	s	PIN,CONNECTOR 3P
CN901	1-580-838-11	o	PIN,CONNECTOR(PC BOARD) 4P
CN902	1-508-743-00	o	PIN,CONNECTOR 5P
CN911	1-568-613-11	o	SOCKET,SIL 2P
CN912	1-568-613-11	o	SOCKET,SIL 2P
CN913	1-568-613-11	o	SOCKET,SIL 2P
CN914	1-568-613-11	o	SOCKET,SIL 2P
D201	8-719-911-19	s	DIODE 1SS119
D251	8-719-911-19	s	DIODE 1SS119
D252	8-719-911-19	s	DIODE 1SS119
D301	8-719-911-19	s	DIODE 1SS119
D901	8-719-110-35	s	DIODE RD13ES-T1B1
D902	8-719-110-44	s	DIODE RD16ES-B1
IC101	8-759-356-16	s	IC NJM4556AD
IC102	8-759-007-23	s	IC MC74HC4316N
IC103	8-759-710-59	s	IC NJM4580D-D
IC201	8-759-710-59	s	IC NJM4580D-D
IC202	8-759-710-59	s	IC NJM4580D-D
IC205	8-759-007-23	s	IC MC74HC4316N
IC206	8-759-710-59	s	IC NJM4580D-D
IC251	8-759-710-59	s	IC NJM4580D-D
IC252	8-759-710-59	s	IC NJM4580D-D
IC301	8-759-710-59	s	IC NJM4580D-D
IC302	8-759-710-59	s	IC NJM4580D-D
IC303	8-759-710-59	s	IC NJM4580D-D
IC304	8-759-710-59	s	IC NJM4580D-D
IC401	8-759-356-16	s	IC NJM4556AD
IC901	8-759-998-09	s	IC S-80741AL
L903	1-414-158-11	s	INDUCTOR 2.2uH
L904	1-414-158-11	s	INDUCTOR 2.2uH
L905	1-414-158-11	s	INDUCTOR 2.2uH
L906	1-414-158-11	s	INDUCTOR 2.2uH
L909	1-414-158-11	s	INDUCTOR 2.2uH
PH201	9-983-170-01	s	PHOTO TRANSISTOR TLP521-2
PH202	9-983-170-01	s	PHOTO TRANSISTOR TLP521-2
PS911	⚠1-532-984-11	s	LINK,IC 2A
PS912	⚠1-532-984-11	s	LINK,IC 2A
PS913	⚠1-532-984-11	s	LINK,IC 2A
PS914	⚠1-532-984-11	s	LINK,IC 2A
Q201	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q202	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q203	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q251	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q252	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q253	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q254	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q255	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q256	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q301	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q302	8-729-119-78	s	TRANSISTOR 2SC2785-HFE

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Ref. No. or Q'ty	Part No.	SP	Description
Q303	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q901	8-729-322-38	s	TRANSISTOR 2SK975
Q902	8-729-322-38	s	TRANSISTOR 2SK975
R101	1-249-441-11	s	CARBON 100K 5% 1/4W
R102	1-249-429-11	s	CARBON 10K 5% 1/4W
R103	1-249-441-11	s	CARBON 100K 5% 1/4W
R104	1-247-895-91	s	CARBON 470K 5% 1/4W
R105	1-249-441-11	s	CARBON 100K 5% 1/4W
R106	1-249-435-11	s	CARBON 33K 5% 1/4W
R107	1-249-430-11	s	CARBON 12K 5% 1/4W
R108	1-249-435-11	s	CARBON 33K 5% 1/4W
R109	1-249-429-11	s	CARBON 10K 5% 1/4W
R110	1-249-429-11	s	CARBON 10K 5% 1/4W
R111	1-249-435-11	s	CARBON 33K 5% 1/4W
R112	1-249-429-11	s	CARBON 10K 5% 1/4W
R113	1-249-435-11	s	CARBON 33K 5% 1/4W
R116	1-249-431-11	s	CARBON 15K 5% 1/4W
R126	1-249-441-11	s	CARBON 100K 5% 1/4W
R127	1-247-895-91	s	CARBON 470K 5% 1/4W
R128	1-249-441-11	s	CARBON 100K 5% 1/4W
R137	1-249-441-11	s	CARBON 100K 5% 1/4W
R138	1-247-895-91	s	CARBON 470K 5% 1/4W
R139	1-249-441-11	s	CARBON 100K 5% 1/4W
R148	1-249-441-11	s	CARBON 100K 5% 1/4W
R149	1-247-895-91	s	CARBON 470K 5% 1/4W
R150	1-249-441-11	s	CARBON 100K 5% 1/4W
R201	1-249-441-11	s	CARBON 100K 5% 1/4W
R202	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R203	1-249-417-11	s	CARBON 1K 5% 1/4W
R204	1-249-438-11	s	CARBON 56K 5% 1/4W
R205	1-249-441-11	s	CARBON 100K 5% 1/4W
R206	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R207	1-249-417-11	s	CARBON 1K 5% 1/4W
R208	1-249-438-11	s	CARBON 56K 5% 1/4W
R209	1-249-441-11	s	CARBON 100K 5% 1/4W
R210	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R211	1-249-417-11	s	CARBON 1K 5% 1/4W
R212	1-249-438-11	s	CARBON 56K 5% 1/4W
R213	1-249-441-11	s	CARBON 100K 5% 1/4W
R214	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R215	1-249-417-11	s	CARBON 1K 5% 1/4W
R216	1-249-438-11	s	CARBON 56K 5% 1/4W
R217	1-249-441-11	s	CARBON 100K 5% 1/4W
R218	1-249-429-11	s	CARBON 10K 5% 1/4W
R219	1-249-441-11	s	CARBON 100K 5% 1/4W
R220	1-249-429-11	s	CARBON 10K 5% 1/4W
R221	1-249-429-11	s	CARBON 10K 5% 1/4W
R222	1-249-441-11	s	CARBON 100K 5% 1/4W
R223	1-249-441-11	s	CARBON 100K 5% 1/4W
R224	1-249-429-11	s	CARBON 10K 5% 1/4W
R225	1-249-411-11	s	CARBON 330 5% 1/4W
R226	1-249-429-11	s	CARBON 10K 5% 1/4W
R227	1-249-441-11	s	CARBON 100K 5% 1/4W
R228	1-249-416-11	s	CARBON 820 5% 1/4W
R229	1-249-434-11	s	CARBON 27K 5% 1/4W
R230	1-249-429-11	s	CARBON 10K 5% 1/4W
R231	1-249-429-11	s	CARBON 10K 5% 1/4W
R232	1-249-429-11	s	CARBON 10K 5% 1/4W

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Ref. No. or Q'ty	Part No.	SP	Description
R233	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R234	1-247-863-91	s	CARBON 22K 5% 1/4W
R235	1-249-427-11	s	CARBON 6.8K 5% 1/4W
R236	1-247-807-31	s	CARBON 100 5% 1/4W
R237	1-247-887-00	s	CARBON 220K 5% 1/4W
R238	1-247-843-11	s	CARBON 3.3K 5% 1/4W
R239	1-249-393-11	s	CARBON 10 5% 1/4W
R251	1-249-441-11	s	CARBON 100K 5% 1/4W
R252	1-249-429-11	s	CARBON 10K 5% 1/4W
R253	1-249-441-11	s	CARBON 100K 5% 1/4W
R254	1-249-416-11	s	CARBON 820 5% 1/4W
R255	1-249-434-11	s	CARBON 27K 5% 1/4W
R256	1-249-429-11	s	CARBON 10K 5% 1/4W
R257	1-249-441-11	s	CARBON 100K 5% 1/4W
R258	1-249-429-11	s	CARBON 10K 5% 1/4W
R259	1-249-429-11	s	CARBON 10K 5% 1/4W
R260	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R261	1-247-863-91	s	CARBON 22K 5% 1/4W
R262	1-249-427-11	s	CARBON 6.8K 5% 1/4W
R263	1-247-887-00	s	CARBON 220K 5% 1/4W
R264	1-247-843-11	s	CARBON 3.3K 5% 1/4W
R265	1-247-807-31	s	CARBON 100 5% 1/4W
R266	1-249-393-11	s	CARBON 10 5% 1/4W
R267	1-249-441-11	s	CARBON 100K 5% 1/4W
R268	1-249-429-11	s	CARBON 10K 5% 1/4W
R269	1-249-441-11	s	CARBON 100K 5% 1/4W
R270	1-249-416-11	s	CARBON 820 5% 1/4W
R271	1-249-434-11	s	CARBON 27K 5% 1/4W
R272	1-249-429-11	s	CARBON 10K 5% 1/4W
R273	1-249-441-11	s	CARBON 100K 5% 1/4W
R274	1-249-429-11	s	CARBON 10K 5% 1/4W
R275	1-249-429-11	s	CARBON 10K 5% 1/4W
R276	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R277	1-247-863-91	s	CARBON 22K 5% 1/4W
R278	1-249-427-11	s	CARBON 6.8K 5% 1/4W
R279	1-247-887-00	s	CARBON 220K 5% 1/4W
R280	1-247-843-11	s	CARBON 3.3K 5% 1/4W
R281	1-247-807-31	s	CARBON 100 5% 1/4W
R282	1-249-393-11	s	CARBON 10 5% 1/4W
R301	1-249-429-11	s	CARBON 10K 5% 1/4W
R302	1-249-429-11	s	CARBON 10K 5% 1/4W
R303	1-249-441-11	s	CARBON 100K 5% 1/4W
R304	1-249-417-11	s	CARBON 1K 5% 1/4W
R305	1-249-429-11	s	CARBON 10K 5% 1/4W
R306	1-249-425-11	s	CARBON 4.7K 5% 1/4W
R307	1-249-425-11	s	CARBON 4.7K 5% 1/4W
R308	1-249-441-11	s	CARBON 100K 5% 1/4W
R309	1-249-429-11	s	CARBON 10K 5% 1/4W
R310	1-249-429-11	s	CARBON 10K 5% 1/4W
R311	1-249-425-11	s	CARBON 4.7K 5% 1/4W
R312	1-249-429-11	s	CARBON 10K 5% 1/4W
R313	1-249-429-11	s	CARBON 10K 5% 1/4W
R314	1-249-425-11	s	CARBON 4.7K 5% 1/4W
R315	1-249-441-11	s	CARBON 100K 5% 1/4W
R316	1-249-429-11	s	CARBON 10K 5% 1/4W
R317	1-249-429-11	s	CARBON 10K 5% 1/4W
R318	1-249-411-11	s	CARBON 330 5% 1/4W
R319	1-249-429-11	s	CARBON 10K 5% 1/4W

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Ref. No. or Q'ty	Part No.	SP	Description
R320	1-249-441-11	s	CARBON 100K 5% 1/4W
R321	1-249-416-11	s	CARBON 820 5% 1/4W
R322	1-249-434-11	s	CARBON 27K 5% 1/4W
R323	1-249-429-11	s	CARBON 10K 5% 1/4W
R324	1-249-429-11	s	CARBON 10K 5% 1/4W
R325	1-249-429-11	s	CARBON 10K 5% 1/4W
R326	1-249-421-11	s	CARBON 2.2K 5% 1/4W
R327	1-247-863-91	s	CARBON 22K 5% 1/4W
R328	1-249-427-11	s	CARBON 6.8K 5% 1/4W
R329	1-247-807-31	s	CARBON 100 5% 1/4W
R330	1-247-887-00	s	CARBON 220K 5% 1/4W
R331	1-247-843-11	s	CARBON 3.3K 5% 1/4W
R332	1-249-393-11	s	CARBON 10 5% 1/4W
R333	1-249-430-11	s	CARBON 12K 5% 1/4W
R334	1-249-435-11	s	CARBON 33K 5% 1/4W
R335	1-249-435-11	s	CARBON 33K 5% 1/4W
R336	1-249-429-11	s	CARBON 10K 5% 1/4W
R337	1-249-429-11	s	CARBON 10K 5% 1/4W
R338	1-249-435-11	s	CARBON 33K 5% 1/4W
R339	1-247-863-91	s	CARBON 22K 5% 1/4W
R340	1-249-441-11	s	CARBON 100K 5% 1/4W
R341	1-249-429-11	s	CARBON 10K 5% 1/4W
R342	1-249-429-11	s	CARBON 10K 5% 1/4W
R343	1-249-429-11	s	CARBON 10K 5% 1/4W
R344	1-249-430-11	s	CARBON 12K 5% 1/4W
R401	1-249-436-11	s	CARBON 39K 5% 1/4W
R402	1-249-435-11	s	CARBON 33K 5% 1/4W
R403	1-249-429-11	s	CARBON 10K 5% 1/4W
R404	1-249-436-11	s	CARBON 39K 5% 1/4W
R405	1-249-435-11	s	CARBON 33K 5% 1/4W
R406	1-249-429-11	s	CARBON 10K 5% 1/4W
R501	1-249-400-11	s	CARBON 39 5% 1/4W
R502	1-249-400-11	s	CARBON 39 5% 1/4W
R503	1-249-400-11	s	CARBON 39 5% 1/4W
R504	1-249-400-11	s	CARBON 39 5% 1/4W
R505	1-249-400-11	s	CARBON 39 5% 1/4W
R506	1-249-400-11	s	CARBON 39 5% 1/4W
R507	1-249-400-11	s	CARBON 39 5% 1/4W
R508	1-249-400-11	s	CARBON 39 5% 1/4W
R509	1-249-400-11	s	CARBON 39 5% 1/4W
R510	1-249-400-11	s	CARBON 39 5% 1/4W
R511	1-249-400-11	s	CARBON 39 5% 1/4W
R512	1-249-400-11	s	CARBON 39 5% 1/4W
R513	1-249-400-11	s	CARBON 39 5% 1/4W
R514	1-249-400-11	s	CARBON 39 5% 1/4W
R515	1-249-400-11	s	CARBON 39 5% 1/4W
R516	1-249-400-11	s	CARBON 39 5% 1/4W
R517	1-249-400-11	s	CARBON 39 5% 1/4W
R518	1-249-400-11	s	CARBON 39 5% 1/4W
R519	1-249-400-11	s	CARBON 39 5% 1/4W
R520	1-249-400-11	s	CARBON 39 5% 1/4W
R521	1-249-400-11	s	CARBON 39 5% 1/4W
R522	1-249-400-11	s	CARBON 39 5% 1/4W
R523	1-249-400-11	s	CARBON 39 5% 1/4W
R524	1-249-400-11	s	CARBON 39 5% 1/4W
R525	1-249-400-11	s	CARBON 39 5% 1/4W
R526	1-249-400-11	s	CARBON 39 5% 1/4W

(AA-93X BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R527	1-249-400-11	s	CARBON 39 5% 1/4W
R528	1-249-400-11	s	CARBON 39 5% 1/4W
R529	1-249-400-11	s	CARBON 39 5% 1/4W
R530	1-249-400-11	s	CARBON 39 5% 1/4W
R531	1-249-400-11	s	CARBON 39 5% 1/4W
R532	1-249-400-11	s	CARBON 39 5% 1/4W
R533	1-249-400-11	s	CARBON 39 5% 1/4W
R534	1-249-400-11	s	CARBON 39 5% 1/4W
R535	1-249-400-11	s	CARBON 39 5% 1/4W
R901	1-249-429-11	s	CARBON 10K 5% 1/4W
R902	1-249-429-11	s	CARBON 10K 5% 1/4W
R903	1-249-432-11	s	CARBON 18K 5% 1/4W
R905	1-249-429-11	s	CARBON 10K 5% 1/4W

AC-190 BOARD (SX-M700/M100/E120)

Ref. No. or Q'ty	Part No.	SP	Description

This board is used for J and EK model of SX-M700, SX-M100 and SX-E120.

1pc	1-665-964-11	o	PRINTED CIRCUIT BOARD,AC-190
L913	1-416-600-11	o	COIL,CHOKE

AL-31 BOARD (SX-E120)

Ref. No. or Q'ty	Part No.	SP	Description			
1pc	A-8265-486-A	o	MOUNTED CIRCUIT BOARD,AL-31			
3pcs	3-186-728-01	o	NUT, L TYPE M2.6			
2pcs	7-621-770-67	s	SCREW +B 2.6x6			
1pc	7-628-254-20	s	SCREW +PS 2.6x8			
10pcs	7-685-134-19	s	SCREW +P 2.6x8 TYPE2 NON-SLIT			
1pc	7-684-023-04	s	N 3, TYPE 2			
1pc	4-861-614-11	o	HOLDER, PC BOARD			
3pcs	7-623-421-07	s	LW 2.6, TYPE B			
C1	1-126-964-11	s	ELECT	10uF	20%	50V
C2	1-102-112-00	s	CERAMIC	330pF	10%	50V
C3	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C4	1-128-551-11	s	ELECT	22uF	20%	25V
C5	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C6	1-128-551-11	s	ELECT	22uF	20%	25V
C7	1-126-964-11	s	ELECT	10uF	20%	50V
C8	1-126-964-11	s	ELECT	10uF	20%	50V
C9	1-102-112-00	s	CERAMIC	330pF	10%	50V
C10	1-126-964-11	s	ELECT	10uF	20%	50V
C11	1-126-964-11	s	ELECT	10uF	20%	50V
C12	1-102-112-00	s	CERAMIC	330pF	10%	50V
C13	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C14	1-128-551-11	s	ELECT	22uF	20%	25V
C15	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C16	1-128-551-11	s	ELECT	22uF	20%	25V
C17	1-126-964-11	s	ELECT	10uF	20%	50V
C18	1-126-964-11	s	ELECT	10uF	20%	50V
C19	1-102-112-00	s	CERAMIC	330pF	10%	50V
C20	1-126-964-11	s	ELECT	10uF	20%	50V
C21	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C22	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C23	1-126-960-11	s	ELECT	1uF	20%	50V
C24	1-126-964-11	s	ELECT	10uF	20%	50V
C25	1-102-108-00	s	CERAMIC	150pF	10%	50V
C26	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C27	1-126-967-11	s	ELECT	47uF	20%	10V
C28	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C29	1-126-967-11	s	ELECT	47uF	20%	10V
C30	1-126-964-11	s	ELECT	10uF	20%	50V
C31	1-126-963-11	s	ELECT	4.7uF	20%	50V
C32	1-126-960-11	s	ELECT	1uF	20%	50V
C33	1-102-108-00	s	CERAMIC	150pF	10%	50V
C34	1-126-960-11	s	ELECT	1uF	20%	50V
C35	1-126-964-11	s	ELECT	10uF	20%	50V
C36	1-126-933-11	s	ELECT	100uF	20%	16V
C37	1-130-475-00	s	MYLAR	0.0022uF	5%	50V
C38	1-102-117-00	s	CERAMIC	820pF	10%	50V
C39	1-164-031-11	s	CERAMIC	33pF	5%	50V
C40	1-126-966-11	s	ELECT	33uF	20%	16V
C41	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C42	1-128-551-11	s	ELECT	22uF	20%	25V
C43	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C44	1-128-551-11	s	ELECT	22uF	20%	25V
C101	1-126-964-11	s	ELECT	10uF	20%	50V
C102	1-164-031-11	s	CERAMIC	33pF	5%	50V
C103	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C104	1-126-967-11	s	ELECT	47uF	20%	10V
C105	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C106	1-126-967-11	s	ELECT	47uF	20%	10V

(AL-31 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description			
C107	1-126-933-61	s	ELECT	100uF	20%	16V
C108	1-126-964-11	s	ELECT	10uF	20%	50V
C109	1-164-031-11	s	CERAMIC	33pF	5%	50V
C110	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C111	1-126-967-11	s	ELECT	47uF	20%	10V
C112	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C113	1-126-967-11	s	ELECT	47uF	20%	10V
C114	1-126-933-61	s	ELECT	100uF	20%	16V
C115	1-126-964-11	s	ELECT	10uF	20%	50V
C116	1-164-031-11	s	CERAMIC	33pF	5%	50V
C117	1-126-933-61	s	ELECT	100uF	20%	16V
C118	1-126-964-11	s	ELECT	10uF	20%	50V
C119	1-164-031-11	s	CERAMIC	33pF	5%	50V
C120	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C121	1-126-967-11	s	ELECT	47uF	20%	10V
C122	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C123	1-126-967-11	s	ELECT	47uF	20%	10V
C124	1-126-933-61	s	ELECT	100uF	20%	16V
C125	1-126-964-11	s	ELECT	10uF	20%	50V
C126	1-164-031-11	s	CERAMIC	33pF	5%	50V
C127	1-126-933-61	s	ELECT	100uF	20%	16V
C128	1-126-964-11	s	ELECT	10uF	20%	50V
C129	1-164-031-11	s	CERAMIC	33pF	5%	50V
C130	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C131	1-126-967-11	s	ELECT	47uF	20%	10V
C132	1-130-483-00	s	MYLAR	0.01uF	5%	50V
C133	1-126-967-11	s	ELECT	47uF	20%	10V
C134	1-126-933-61	s	ELECT	100uF	20%	16V
C135	1-126-964-11	s	ELECT	10uF	20%	50V
C136	1-164-031-11	s	CERAMIC	33pF	5%	50V
C137	1-126-933-61	s	ELECT	100uF	20%	16V
C901	1-126-925-11	s	ELECT	470uF	20%	10V
C902	1-126-925-11	s	ELECT	470uF	20%	10V
C903	1-104-664-11	s	ELECT	47uF	20%	25V
C904	1-104-664-11	s	ELECT	47uF	20%	25V
C905	1-127-487-00	s	ELECT SOLID	4.7uF	20%	10V
C906	1-126-952-11	s	ELECT	1000uF	20%	35V
C907	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C908	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C909	1-126-953-11	s	ELECT	2200uF	20%	35V
C910	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C911	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C912	1-126-953-11	s	ELECT	2200uF	20%	35V
C913	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C914	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C915	1-126-953-11	s	ELECT	2200uF	20%	35V
C916	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C917	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C918	1-126-953-11	s	ELECT	2200uF	20%	35V
C919	1-126-953-11	s	ELECT	2200uF	20%	35V
C920	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C921	1-130-495-00	s	MYLAR	0.1uF	5%	50V
C922	1-126-960-11	s	ELECT	1uF	20%	50V
C923	1-104-665-11	s	ELECT	100uF	20%	25V
C924	1-126-952-11	s	ELECT	1000uF	20%	35V
CN1	1-766-855-11	o	CONNECTOR,RP13A TYPE			
CN2	1-766-855-11	o	CONNECTOR,RP13A TYPE			
CN3	1-766-855-11	o	CONNECTOR,RP13A TYPE			

(AL-31 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
CN4	1-766-855-11	o	CONNECTOR,RP13A TYPE
CN5	1-766-855-11	o	CONNECTOR,RP13A TYPE
CN6	1-564-005-11	o	CONNECTOR 6P,MALE
CN7	1-566-562-11	o	CONNECTOR(RIBON CABLE) 26P
CN904	1-580-838-11	o	PIN,CONNECTOR(PC BOARD) 4P
CN905	1-580-838-11	o	PIN,CONNECTOR(PC BOARD) 4P
CN907	1-508-743-00	o	PIN,CONNECTOR 5P
CN908	1-508-796-00	o	PIN,CONNECTOR 2P
CN911	1-568-613-11	o	SOCKET,SIL 2P
CN912	1-568-613-11	o	SOCKET,SIL 2P
CN913	1-568-613-11	o	SOCKET,SIL 2P
CN914	1-568-613-11	o	SOCKET,SIL 2P
CN915	1-568-613-11	o	SOCKET,SIL 2P
D1	8-719-920-76	s	DIODE 1SS119-25
D901	8-719-920-76	s	DIODE 1SS119-25
D902	8-719-920-76	s	DIODE 1SS119-25
D903	8-719-920-76	s	DIODE 1SS119-25
D904	8-719-920-76	s	DIODE 1SS119-25
D905	8-719-110-44	s	DIODE RD16ES-B1
D906	8-719-110-35	s	DIODE RD13ESB1
D907	8-719-110-44	s	DIODE RD16ES-B1
FB1	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB2	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB3	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB4	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB5	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB6	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB7	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB8	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB9	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB10	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB11	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB12	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB13	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB14	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB15	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
IC1	8-759-153-69	s	IC UPC4572C
IC2	8-759-153-69	s	IC UPC4572C
IC3	8-759-153-69	s	IC UPC4572C
IC4	8-759-153-69	s	IC UPC4572C
IC5	8-759-007-23	s	IC MC74HC4316N
IC101	8-759-356-16	s	IC NJM4556AD
IC102	8-759-356-16	s	IC NJM4556AD
IC103	8-759-356-16	s	IC NJM4556AD
IC104	8-759-356-16	s	IC NJM4556AD
L903	1-414-158-11	s	INDUCTOR 2.2uH
L904	1-414-158-11	s	INDUCTOR 2.2uH
L905	1-414-158-11	s	INDUCTOR 2.2uH
L906	1-414-158-11	s	INDUCTOR 2.2uH
L907	1-414-158-11	s	INDUCTOR 2.2uH
PH1	9-983-170-01	s	PHOTO TRANSISTOR TLP521-2
PH2	9-983-170-01	s	PHOTO TRANSISTOR TLP521-2
PS911	⚠1-532-984-11	s	LINK,IC 2A
PS912	⚠1-532-984-11	s	LINK,IC 2A
PS913	⚠1-532-984-11	s	LINK,IC 2A
PS914	⚠1-532-984-11	s	LINK,IC 2A
PS915	⚠1-532-984-11	s	LINK,IC 2A

(AL-31 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q7	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q8	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q9	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q201	8-729-322-38	s	TRANSISTOR 2SK975
Q202	8-729-322-38	s	TRANSISTOR 2SK975
Q203	8-729-322-38	s	TRANSISTOR 2SK975
R1	1-249-441-11	s	CARBON 100K 5% 1/4W
R2	1-247-839-31	s	CARBON 2.2K 5% 1/4W
R3	1-249-417-11	s	CARBON 1K 5% 1/4W
R4	1-249-438-11	s	CARBON 56K 5% 1/4W
R5	1-249-441-11	s	CARBON 100K 5% 1/4W
R6	1-247-839-31	s	CARBON 2.2K 5% 1/4W
R7	1-249-417-11	s	CARBON 1K 5% 1/4W
R8	1-249-438-11	s	CARBON 56K 5% 1/4W
R9	1-249-441-11	s	CARBON 100K 5% 1/4W
R10	1-247-839-31	s	CARBON 2.2K 5% 1/4W
R11	1-249-417-11	s	CARBON 1K 5% 1/4W
R12	1-249-438-11	s	CARBON 56K 5% 1/4W
R13	1-249-441-11	s	CARBON 100K 5% 1/4W
R14	1-247-839-31	s	CARBON 2.2K 5% 1/4W
R15	1-249-417-11	s	CARBON 1K 5% 1/4W
R16	1-249-438-11	s	CARBON 56K 5% 1/4W
R17	1-249-441-11	s	CARBON 100K 5% 1/4W
R18	1-249-441-11	s	CARBON 100K 5% 1/4W
R19	1-249-441-11	s	CARBON 100K 5% 1/4W
R20	1-249-441-11	s	CARBON 100K 5% 1/4W
R21	1-247-855-31	s	CARBON 10K 5% 1/4W
R22	1-247-855-31	s	CARBON 10K 5% 1/4W
R23	1-247-855-31	s	CARBON 10K 5% 1/4W
R24	1-247-855-31	s	CARBON 10K 5% 1/4W
R25	1-249-411-11	s	CARBON 330 5% 1/4W
R26	1-247-855-31	s	CARBON 10K 5% 1/4W
R27	1-249-441-11	s	CARBON 100K 5% 1/4W
R28	1-249-416-11	s	CARBON 820 5% 1/4W
R29	1-249-434-11	s	CARBON 27K 5% 1/4W
R30	1-247-855-31	s	CARBON 10K 5% 1/4W
R31	1-247-855-31	s	CARBON 10K 5% 1/4W
R32	1-247-855-31	s	CARBON 10K 5% 1/4W
R33	1-247-839-31	s	CARBON 2.2K 5% 1/4W
R34	1-249-433-11	s	CARBON 22K 5% 1/4W
R35	1-249-427-11	s	CARBON 6.8K 5% 1/4W
R36	1-247-887-00	s	CARBON 220K 5% 1/4W
R37	1-247-843-11	s	CARBON 3.3K 5% 1/4W
R38	1-247-807-31	s	CARBON 100 5% 1/4W
R39	1-249-393-11	s	CARBON 10 5% 1/4W
R40	1-249-433-11	s	CARBON 22K 5% 1/4W
R41	1-247-855-31	s	CARBON 10K 5% 1/4W
R42	1-247-855-31	s	CARBON 10K 5% 1/4W
R43	1-249-435-11	s	CARBON 33K 5% 1/4W
R44	1-249-438-11	s	CARBON 56K 5% 1/4W
R45	1-249-400-11	s	CARBON 39 5% 1/4W
R101	1-249-441-11	s	CARBON 100K 5% 1/4W
R102	1-249-436-11	s	CARBON 39K 5% 1/4W
R103	1-249-435-11	s	CARBON 33K 5% 1/4W
R104	1-247-855-31	s	CARBON 10K 5% 1/4W
R105	1-249-441-11	s	CARBON 100K 5% 1/4W
R106	1-249-436-11	s	CARBON 39K 5% 1/4W

(AL-31 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R107	1-249-435-11	s	CARBON 33K 5% 1/4W
R108	1-247-855-31	s	CARBON 10K 5% 1/4W
R109	1-249-441-11	s	CARBON 100K 5% 1/4W
R110	1-249-436-11	s	CARBON 39K 5% 1/4W
R111	1-249-435-11	s	CARBON 33K 5% 1/4W
R112	1-247-855-31	s	CARBON 10K 5% 1/4W
R113	1-249-441-11	s	CARBON 100K 5% 1/4W
R114	1-249-436-11	s	CARBON 39K 5% 1/4W
R115	1-249-435-11	s	CARBON 33K 5% 1/4W
R116	1-247-855-31	s	CARBON 10K 5% 1/4W
R117	1-249-441-11	s	CARBON 100K 5% 1/4W
R118	1-249-436-11	s	CARBON 39K 5% 1/4W
R119	1-249-435-11	s	CARBON 33K 5% 1/4W
R120	1-247-855-31	s	CARBON 10K 5% 1/4W
R121	1-249-441-11	s	CARBON 100K 5% 1/4W
R122	1-249-436-11	s	CARBON 39K 5% 1/4W
R123	1-249-435-11	s	CARBON 33K 5% 1/4W
R124	1-247-855-31	s	CARBON 10K 5% 1/4W
R125	1-249-441-11	s	CARBON 100K 5% 1/4W
R126	1-249-436-11	s	CARBON 39K 5% 1/4W
R127	1-249-435-11	s	CARBON 33K 5% 1/4W
R128	1-247-855-31	s	CARBON 10K 5% 1/4W
R201	1-249-400-11	s	CARBON 39 5% 1/4W
R202	1-249-400-11	s	CARBON 39 5% 1/4W
R203	1-249-400-11	s	CARBON 39 5% 1/4W
R204	1-249-400-11	s	CARBON 39 5% 1/4W
R205	1-249-400-11	s	CARBON 39 5% 1/4W
R206	1-249-400-11	s	CARBON 39 5% 1/4W
R207	1-249-400-11	s	CARBON 39 5% 1/4W
R208	1-249-400-11	s	CARBON 39 5% 1/4W
R209	1-249-400-11	s	CARBON 39 5% 1/4W
R210	1-249-400-11	s	CARBON 39 5% 1/4W
R211	1-249-400-11	s	CARBON 39 5% 1/4W
R212	1-249-400-11	s	CARBON 39 5% 1/4W
R213	1-249-400-11	s	CARBON 39 5% 1/4W
R214	1-249-400-11	s	CARBON 39 5% 1/4W
R215	1-249-400-11	s	CARBON 39 5% 1/4W
R216	1-249-400-11	s	CARBON 39 5% 1/4W
R217	1-249-400-11	s	CARBON 39 5% 1/4W
R218	1-249-400-11	s	CARBON 39 5% 1/4W
R219	1-249-400-11	s	CARBON 39 5% 1/4W
R220	1-249-400-11	s	CARBON 39 5% 1/4W
R221	1-249-400-11	s	CARBON 39 5% 1/4W
R222	1-249-400-11	s	CARBON 39 5% 1/4W
R223	1-249-400-11	s	CARBON 39 5% 1/4W
R224	1-249-400-11	s	CARBON 39 5% 1/4W
R225	1-249-400-11	s	CARBON 39 5% 1/4W
R226	1-249-400-11	s	CARBON 39 5% 1/4W
R227	1-249-400-11	s	CARBON 39 5% 1/4W
R228	1-249-400-11	s	CARBON 39 5% 1/4W
R901	1-249-435-11	s	CARBON 33K 5% 1/4W
R902	1-249-441-11	s	CARBON 100K 5% 1/4W
R903	1-215-865-11	s	METAL 220 5% 1W
R904	1-247-855-31	s	CARBON 10K 5% 1/4W
R905	1-247-855-31	s	CARBON 10K 5% 1/4W
R906	1-249-432-11	s	CARBON 18K 5% 1/4W
R908	1-247-855-31	s	CARBON 10K 5% 1/4W

AU-202 BOARD (SX-T100)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-897-A	o	MOUNTED CIRCUIT BOARD,AU-202
C1	1-126-934-11	s	ELECT 220uF 20% 16V
C2	1-126-960-11	s	ELECT 1uF 20% 50V
C3	1-130-479-00	s	MYLAR 0.0047uF 5% 50V
C4	1-126-960-11	s	ELECT 1uF 20% 50V
C5	1-102-973-00	s	CERAMIC 100pF 5% 50V
C6	1-126-960-11	s	ELECT 1uF 20% 50V
C7	1-126-963-11	s	ELECT 4.7uF 20% 50V
C8	1-126-933-61	s	ELECT 100uF 20% 16V
C9	1-126-947-11	s	ELECT 47uF 20% 35V
C10	1-126-947-11	s	ELECT 47uF 20% 35V
C11	1-126-948-11	s	ELECT 100uF 20% 35V
C12	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C13	1-126-940-11	s	ELECT 330uF 20% 25V
C14	1-126-947-11	s	ELECT 47uF 20% 35V
C15	1-130-479-00	s	MYLAR 0.0047uF 5% 50V
C16	1-130-495-00	s	MYLAR 0.1uF 5% 50V
C17	1-102-973-00	s	CERAMIC 100pF 5% 50V
C18	1-126-960-11	s	ELECT 1uF 20% 50V
C19	1-126-963-11	s	ELECT 4.7uF 20% 50V
C20	1-126-933-61	s	ELECT 100uF 20% 16V
C21	1-126-947-11	s	ELECT 47uF 20% 35V
C22	1-126-960-11	s	ELECT 1uF 20% 50V
CN1	1-506-473-11	s	CONNECTOR 8P,MALE
G1	3-673-772-01	s	TERMINAL,TP
IC1	8-759-012-65	s	IC MC34119P
IC2	8-759-332-39	s	IC NJM7806FA
IC3	8-759-012-65	s	IC MC34119P
Q1	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q2	8-729-102-14	s	TRANSISTOR 2SD1020-E
Q3	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q4	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q5	8-729-102-14	s	TRANSISTOR 2SD1020-E
Q6	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
R1	1-249-417-11	s	CARBON 1K 5% 1/4W
R2	1-249-420-11	s	CARBON 1.8K 5% 1/4W
R3	1-249-437-11	s	CARBON 47K 5% 1/4W
R4	1-247-839-31	s	CARBON 2.2K 5% 1/4W
R5	1-249-439-11	s	CARBON 68K 5% 1/4W
R6	1-247-855-31	s	CARBON 10K 5% 1/4W
R7	1-249-411-11	s	CARBON 330 5% 1/4W
R8	1-247-807-31	s	CARBON 100 5% 1/4W
R9	1-247-855-31	s	CARBON 10K 5% 1/4W
R10	1-247-855-31	s	CARBON 10K 5% 1/4W
R11	1-249-433-11	s	CARBON 22K 5% 1/4W
R12	1-247-855-31	s	CARBON 10K 5% 1/4W
R13	1-247-855-31	s	CARBON 10K 5% 1/4W
R14	1-249-412-11	s	CARBON 390 5% 1/4W
R15	⚠ 1-212-849-00	s	FUSIBLE 4.7 5% 1/4W
R16	1-247-855-31	s	CARBON 10K 5% 1/4W
R17	1-249-433-11	s	CARBON 22K 5% 1/4W
R18	1-247-855-31	s	CARBON 10K 5% 1/4W
R19	1-247-855-31	s	CARBON 10K 5% 1/4W
R20	1-249-437-11	s	CARBON 47K 5% 1/4W

(AU-202 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R21	1-249-437-11	s	CARBON 47K 5% 1/4W
R22	1-249-439-11	s	CARBON 68K 5% 1/4W
R23	1-247-855-31	s	CARBON 10K 5% 1/4W
R24	1-249-411-11	s	CARBON 330 5% 1/4W
R25	1-247-855-31	s	CARBON 10K 5% 1/4W
R26	⚠ 1-212-849-00	s	FUSIBLE 4.7 5% 1/4W
R27	1-247-893-11	s	CARBON 390K 5% 1/4W

CN-1478 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-665-850-11	o	PRINTED CIRCUIT BOARD,CN-1478
CN1	1-564-014-11	s	PIN,CONNECTOR 4P
FB1	1-410-396-41	s	FERRITE BEAD INDUCTOR 0.45uH
FB2	1-410-396-41	s	FERRITE BEAD INDUCTOR 0.45uH
FB3	1-410-396-41	s	FERRITE BEAD INDUCTOR 0.45uH
FB4	1-410-396-41	s	FERRITE BEAD INDUCTOR 0.45uH
J1	1-563-347-11	s	JACK,PHONE
J2	1-563-347-11	s	JACK,PHONE
R1	1-249-428-11	s	CARBON 8.2K 5% 1/4W
R2	1-249-420-11	s	CARBON 1.8K 5% 1/4W
R3	1-249-412-11	s	CARBON 390 5% 1/4W

CPU-181(MAIN) BOARD (SX-M700/M100)

Ref. No. or Q'ty	Part No.	SP	Description
			This electrical parts list covers information on service parts of both SX-M700 and SX-M100.
1pc	A-8314-996-A	o	MOUNTED CIRCUIT BOARD, CPU-181(MAIN)
1pc	1-562-579-21	s	PLUG,SHORTING
2pcs	4-302-090-00	o	HINGE
C5	1-102-514-11	s	CERAMIC 22pF 5% 50V
C6	1-102-514-11	s	CERAMIC 22pF 5% 50V
C7	1-126-791-11	s	ELECT 10uF 20% 16V
C8	1-126-767-11	s	ELECT 1000uF 20% 16V
C9	1-126-791-11	s	ELECT 10uF 20% 16V
C10	1-126-791-11	s	ELECT 10uF 20% 16V
C11	1-126-791-11	s	ELECT 10uF 20% 16V
C13	1-164-159-11	s	CERAMIC 0.1uF 50V
C14	1-164-159-11	s	CERAMIC 0.1uF 50V
C15	1-164-159-11	s	CERAMIC 0.1uF 50V
C16	1-164-159-11	s	CERAMIC 0.1uF 50V
C17	1-164-159-11	s	CERAMIC 0.1uF 50V
C18	1-164-159-11	s	CERAMIC 0.1uF 50V
C19	1-164-159-11	s	CERAMIC 0.1uF 50V
C20	1-164-159-11	s	CERAMIC 0.1uF 50V
C21	1-126-964-11	s	ELECT 10uF 20% 50V
C22	1-164-159-11	s	CERAMIC 0.1uF 50V
C23	1-164-159-11	s	CERAMIC 0.1uF 50V
C24	1-164-159-11	s	CERAMIC 0.1uF 50V
C25	1-164-159-11	s	CERAMIC 0.1uF 50V
C26	1-164-159-11	s	CERAMIC 0.1uF 50V
C27	1-164-159-11	s	CERAMIC 0.1uF 50V
C28	1-164-159-11	s	CERAMIC 0.1uF 50V
C29	1-164-159-11	s	CERAMIC 0.1uF 50V
C30	1-164-159-11	s	CERAMIC 0.1uF 50V
C31	1-164-159-11	s	CERAMIC 0.1uF 50V
C32	1-164-159-11	s	CERAMIC 0.1uF 50V
C33	1-164-159-11	s	CERAMIC 0.1uF 50V
C34	1-164-159-11	s	CERAMIC 0.1uF 50V
C35	1-164-159-11	s	CERAMIC 0.1uF 50V
C36	1-164-159-11	s	CERAMIC 0.1uF 50V
C37	1-164-159-11	s	CERAMIC 0.1uF 50V
C38	1-164-159-11	s	CERAMIC 0.1uF 50V
C39	1-164-159-11	s	CERAMIC 0.1uF 50V
C40	1-164-159-11	s	CERAMIC 0.1uF 50V
C41	1-164-159-11	s	CERAMIC 0.1uF 50V
C42	1-164-159-11	s	CERAMIC 0.1uF 50V
C43	1-164-159-11	s	CERAMIC 0.1uF 50V
C44	1-164-159-11	s	CERAMIC 0.1uF 50V
C45	1-164-159-11	s	CERAMIC 0.1uF 50V
C46	1-164-159-11	s	CERAMIC 0.1uF 50V
C48	1-164-159-11	s	CERAMIC 0.1uF 50V
C49	1-164-159-11	s	CERAMIC 0.1uF 50V
C50	1-164-159-11	s	CERAMIC 0.1uF 50V
C51	1-164-159-11	s	CERAMIC 0.1uF 50V
C54	1-164-159-11	s	CERAMIC 0.1uF 50V
C57	1-126-964-11	s	ELECT 10uF 20% 50V
C58	1-126-964-11	s	ELECT 10uF 20% 50V
C59	1-126-964-11	s	ELECT 10uF 20% 50V
C61	1-126-964-11	s	ELECT 10uF 20% 50V
C62	1-126-964-11	s	ELECT 10uF 20% 50V

(CPU-181(MAIN) BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
CN1	1-508-845-00	o	PIN,CONNECTOR 6P
CN3	1-508-797-00	o	PIN,CONNECTOR 4P
CN4	1-506-472-11	s	CONNECTOR 7P,MALE
CN5	1-566-562-11	o	CONNECTOR(RIBON CABLE) 26P
CNI2	1-526-962-11	s	SOCKET,IC 68P
CNI3	1-526-659-00	o	SOCKET,IC 28P
CNI4	1-526-659-00	o	SOCKET,IC 28P
CNI5	1-526-826-11	o	SOCKET,IC(DP) 48P
CNI7	1-526-656-00	s	SOCKET,IC(DP) 20P
CNI8	1-526-656-00	s	SOCKET,IC(DP) 20P
CNI13	1-540-055-11	s	SOCKET,IC 44P
CNI19	1-526-654-21	o	SOCKET,IC(DP) 16P
CNI20	1-526-652-21	o	SOCKET,IC 8P
CNI21	1-526-652-21	o	SOCKET,IC 8P
CNI22	1-526-652-21	o	SOCKET,IC 8P
CNI23	1-526-652-21	o	SOCKET,IC 8P
D1	8-719-920-76	s	DIODE 1SS119-25
D2	8-719-800-40	s	DIODE TLR211
D3	8-719-800-40	s	DIODE TLR211
D4	8-719-800-40	s	DIODE TLR211
D5	8-719-800-40	s	DIODE TLR211
D6	8-719-800-40	s	DIODE TLR211
D7	8-719-800-40	s	DIODE TLR211
D8	8-719-800-40	s	DIODE TLR211
D9	8-719-800-40	s	DIODE TLR211
D10	8-719-109-93	s	DIODE RD6.2ES-B2
D11	8-719-109-93	s	DIODE RD6.2ES-B2
D12	8-719-109-93	s	DIODE RD6.2ES-B2
D13	8-719-109-93	s	DIODE RD6.2ES-B2
D14	8-719-109-93	s	DIODE RD6.2ES-B2
D15	8-719-109-93	s	DIODE RD6.2ES-B2
D16	8-719-109-93	s	DIODE RD6.2ES-B2
D17	8-719-109-93	s	DIODE RD6.2ES-B2
D18	8-719-109-93	s	DIODE RD6.2ES-B2
D19	8-719-109-93	s	DIODE RD6.2ES-B2
D20	8-719-109-93	s	DIODE RD6.2ES-B2
D21	8-719-109-93	s	DIODE RD6.2ES-B2
D22	8-719-109-93	s	DIODE RD6.2ES-B2
D23	8-719-109-93	s	DIODE RD6.2ES-B2
D24	8-719-109-93	s	DIODE RD6.2ES-B2
D25	8-719-109-93	s	DIODE RD6.2ES-B2
D26	8-719-109-93	s	DIODE RD6.2ES-B2
D27	8-719-160-29	s	DIODE RD6.2FB2
D28	8-719-920-76	s	DIODE 1SS119-25
D29	8-719-920-76	s	DIODE 1SS119-25
FB1	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB2	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB3	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB4	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB5	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB6	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB7	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB8	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB9	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB10	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB11	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB12	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB13	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH

(CPU-181(MAIN) BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
FB14	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB15	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB16	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB17	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB18	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB19	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB20	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB25	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB26	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB27	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB28	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB29	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB30	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB31	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB32	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
IC2	8-759-292-95	s	IC HD64180ZRCP8
IC3	8-759-498-40	s	IC 27C256-CU V2.02
IC4	8-759-374-71	s	IC LC35256A-10
IC5	8-759-945-03	s	IC MB8422-12LP
IC6	8-759-913-42	s	IC PST520C-2
IC7	8-759-293-51	o	IC EP330-MEMDEC V1.00
IC8	8-759-293-50	o	IC EP330-IODEC V1.00
IC9	8-759-916-14	s	IC SN74HC04N
IC10	8-759-916-79	s	IC SN74HC273AN
IC11	8-759-916-79	s	IC SN74HC273AN
IC12	8-759-917-05	s	IC SN74HC541N
IC13	8-759-293-49	o	IC EPM7032-CONT V1.00
IC14	8-759-202-31	s	IC TC74HC162P
IC15	8-759-921-21	s	IC SN74HC163N
IC16	8-759-921-21	s	IC SN74HC163N
IC17	8-759-916-14	s	IC SN74HC04N
IC18	8-759-916-20	s	IC SN74HC14AN
IC19	8-759-289-44	s	IC LTC487CN
IC20	8-759-289-46	s	IC LTC485CN8
IC21	8-759-289-46	s	IC LTC485CN8
IC22	8-759-289-46	s	IC LTC485CN8
IC23	8-759-289-46	s	IC LTC485CN8
IC24	8-759-916-53	s	IC SN74HC166N
IC25	8-759-234-75	s	IC TC74HC4094AP
IC26	8-759-004-70	s	IC SN74HCT245N
IC28	8-759-916-16	s	IC MC74HC08AN
IC29	8-759-916-53	s	IC SN74HC166N
IC30	8-759-234-75	s	IC TC74HC4094AP
IC31	8-759-004-70	s	IC SN74HCT245N
IC32	8-759-916-53	s	IC SN74HC166N
IC33	8-759-234-75	s	IC TC74HC4094AP
IC34	8-759-004-70	s	IC SN74HCT245N
IC35	8-759-916-53	s	IC SN74HC166N
IC36	8-759-234-75	s	IC TC74HC4094AP
IC37	8-759-004-70	s	IC SN74HCT245N
IC38	8-759-032-81	s	IC MC74HC74N
IC39	8-759-921-22	s	IC SN74HC164AN
IC40	8-759-921-22	s	IC SN74HC164AN
IC44	8-759-917-05	s	IC SN74HC541N
JP1	1-564-950-21	o	PIN,CONNECTOR 8P
LF1	1-421-773-11	s	FILTER,NOISE
R1	1-247-855-31	s	CARBON 10K 5% 1/4W

(CPU-181(MAIN) BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R2	1-247-855-31	s	CARBON 10K 5% 1/4W
R3	1-249-433-11	s	CARBON 22K 5% 1/4W
R4	1-249-401-11	s	CARBON 47 5% 1/4W
R5	1-247-823-31	s	CARBON 470 5% 1/4W
R6	1-247-855-31	s	CARBON 10K 5% 1/4W
R7	1-247-855-31	s	CARBON 10K 5% 1/4W
R8	1-247-855-31	s	CARBON 10K 5% 1/4W
R9	1-247-855-31	s	CARBON 10K 5% 1/4W
R10	1-247-809-31	s	CARBON 120 5% 1/4W
R11	1-247-809-31	s	CARBON 120 5% 1/4W
R12	1-247-809-31	s	CARBON 120 5% 1/4W
R13	1-247-809-31	s	CARBON 120 5% 1/4W
R14	1-247-855-31	s	CARBON 10K 5% 1/4W
R15	1-247-855-31	s	CARBON 10K 5% 1/4W
R16	1-247-855-31	s	CARBON 10K 5% 1/4W
R17	1-247-807-31	s	CARBON 100 5% 1/4W
R18	1-247-855-31	s	CARBON 10K 5% 1/4W
R19	1-249-401-11	s	CARBON 47 5% 1/4W
RB1	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB2	1-231-525-00	s	RESISTOR BLOCK 4.7Kx4
RB3	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB4	1-231-405-00	s	RESISTOR BLOCK 1Kx8
RB5	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB6	1-231-385-00	s	RESISTOR BLOCK 4.7Kx8
RB7	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB8	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB9	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB10	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB11	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB12	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB13	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB14	1-231-410-00	s	RESISTOR BLOCK 10Kx8
S1	1-572-198-11	s	SWITCH,KEY BOARD
S2	1-516-925-21	s	SWITCH,DIP 8-CKT
X1	1-567-907-11	s	VIBRATOR,CRYSTAL

CPU-181(EXT) BOARD (SX-E120)

Ref. No. or Q'ty	Part No.	SP	Description

This electrical parts list covers information on service parts of SX-E120.

1pc	A-8265-483-A	o	MOUNTED CIRCUIT BOARD, CPU-181(EXT)
1pc	1-562-579-21	s	PLUG, SHORTING
2pcs	4-302-090-00	o	HINGE
C1	1-126-960-11	s	ELECT 1uF 20% 50V
C2	1-126-960-11	s	ELECT 1uF 20% 50V
C3	1-126-960-11	s	ELECT 1uF 20% 50V
C4	1-126-960-11	s	ELECT 1uF 20% 50V
C5	1-102-514-11	s	CERAMIC 22pF 5% 50V
C6	1-102-514-11	s	CERAMIC 22pF 5% 50V
C7	1-126-791-11	s	ELECT 10uF 20% 16V
C8	1-126-767-11	s	ELECT 1000uF 20% 16V
C9	1-126-791-11	s	ELECT 10uF 20% 16V
C10	1-126-791-11	s	ELECT 10uF 20% 16V
C11	1-126-791-11	s	ELECT 10uF 20% 16V
C12	1-164-159-11	s	CERAMIC 0.1uF 50V
C13	1-164-159-11	s	CERAMIC 0.1uF 50V
C14	1-164-159-11	s	CERAMIC 0.1uF 50V
C15	1-164-159-11	s	CERAMIC 0.1uF 50V
C16	1-164-159-11	s	CERAMIC 0.1uF 50V
C17	1-164-159-11	s	CERAMIC 0.1uF 50V
C18	1-164-159-11	s	CERAMIC 0.1uF 50V
C19	1-164-159-11	s	CERAMIC 0.1uF 50V
C20	1-164-159-11	s	CERAMIC 0.1uF 50V
C21	1-126-964-11	s	ELECT 10uF 20% 50V
C22	1-164-159-11	s	CERAMIC 0.1uF 50V
C23	1-164-159-11	s	CERAMIC 0.1uF 50V
C24	1-164-159-11	s	CERAMIC 0.1uF 50V
C25	1-164-159-11	s	CERAMIC 0.1uF 50V
C26	1-164-159-11	s	CERAMIC 0.1uF 50V
C27	1-164-159-11	s	CERAMIC 0.1uF 50V
C28	1-164-159-11	s	CERAMIC 0.1uF 50V
C29	1-164-159-11	s	CERAMIC 0.1uF 50V
C30	1-164-159-11	s	CERAMIC 0.1uF 50V
C31	1-164-159-11	s	CERAMIC 0.1uF 50V
C32	1-164-159-11	s	CERAMIC 0.1uF 50V
C33	1-164-159-11	s	CERAMIC 0.1uF 50V
C34	1-164-159-11	s	CERAMIC 0.1uF 50V
C35	1-164-159-11	s	CERAMIC 0.1uF 50V
C36	1-164-159-11	s	CERAMIC 0.1uF 50V
C37	1-164-159-11	s	CERAMIC 0.1uF 50V
C38	1-164-159-11	s	CERAMIC 0.1uF 50V
C39	1-164-159-11	s	CERAMIC 0.1uF 50V
C40	1-164-159-11	s	CERAMIC 0.1uF 50V
C41	1-164-159-11	s	CERAMIC 0.1uF 50V
C42	1-164-159-11	s	CERAMIC 0.1uF 50V
C43	1-164-159-11	s	CERAMIC 0.1uF 50V
C44	1-164-159-11	s	CERAMIC 0.1uF 50V
C45	1-164-159-11	s	CERAMIC 0.1uF 50V
C46	1-164-159-11	s	CERAMIC 0.1uF 50V
C48	1-164-159-11	s	CERAMIC 0.1uF 50V
C49	1-164-159-11	s	CERAMIC 0.1uF 50V
C50	1-164-159-11	s	CERAMIC 0.1uF 50V
C51	1-164-159-11	s	CERAMIC 0.1uF 50V
C54	1-164-159-11	s	CERAMIC 0.1uF 50V
C56	1-126-964-11	s	ELECT 10uF 20% 50V

(CPU-181(EXT) BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C59	1-126-964-11	s	ELECT 10uF 20% 50V
C61	1-126-964-11	s	ELECT 10uF 20% 50V
C62	1-126-964-11	s	ELECT 10uF 20% 50V
CN2	1-564-005-11	o	CONNECTOR 6P,MALE
CN3	1-508-797-00	o	PIN,CONNECTOR 4P
CN5	1-566-562-11	o	CONNECTOR(RIBON CABLE) 26P
CNI1	1-526-654-21	o	SOCKET,IC(DP) 16P
CNI2	1-526-962-11	s	SOCKET,IC 68P
CNI3	1-526-659-00	o	SOCKET,IC 28P
CNI4	1-526-659-00	o	SOCKET,IC 28P
CNI5	1-526-826-11	o	SOCKET,IC(DP) 48P
CNI7	1-526-656-00	s	SOCKET,IC(DP) 20P
CNI8	1-526-656-00	s	SOCKET,IC(DP) 20P
CNI13	1-540-055-11	o	SOCKET,IC 44P
CNI19	1-526-654-21	o	SOCKET,IC(DP) 16P
CNI20	1-526-652-21	o	SOCKET,IC 8P
CNI21	1-526-652-21	o	SOCKET,IC 8P
CNI22	1-526-652-21	o	SOCKET,IC 8P
CNI23	1-526-652-21	o	SOCKET,IC 8P
D1	8-719-920-76	s	DIODE 1SS119-25
D2	8-719-800-40	s	DIODE TLR211
D3	8-719-800-40	s	DIODE TLR211
D4	8-719-800-40	s	DIODE TLR211
D5	8-719-800-40	s	DIODE TLR211
D6	8-719-800-40	s	DIODE TLR211
D7	8-719-800-40	s	DIODE TLR211
D8	8-719-800-40	s	DIODE TLR211
D9	8-719-800-40	s	DIODE TLR211
D10	8-719-109-93	s	DIODE RD6.2ES-B2
D11	8-719-109-93	s	DIODE RD6.2ES-B2
D12	8-719-109-93	s	DIODE RD6.2ES-B2
D13	8-719-109-93	s	DIODE RD6.2ES-B2
D14	8-719-109-93	s	DIODE RD6.2ES-B2
D15	8-719-109-93	s	DIODE RD6.2ES-B2
D16	8-719-109-93	s	DIODE RD6.2ES-B2
D17	8-719-109-93	s	DIODE RD6.2ES-B2
D18	8-719-109-93	s	DIODE RD6.2ES-B2
D19	8-719-109-93	s	DIODE RD6.2ES-B2
D20	8-719-109-93	s	DIODE RD6.2ES-B2
D21	8-719-109-93	s	DIODE RD6.2ES-B2
D22	8-719-109-93	s	DIODE RD6.2ES-B2
D23	8-719-109-93	s	DIODE RD6.2ES-B2
D24	8-719-109-93	s	DIODE RD6.2ES-B2
D25	8-719-109-93	s	DIODE RD6.2ES-B2
D26	8-719-109-93	s	DIODE RD6.2ES-B2
D27	8-719-160-29	s	DIODE RD6.2FB2
D28	8-719-920-76	s	DIODE 1SS119-25
D29	8-719-920-76	s	DIODE 1SS119-25
FB1	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB2	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB3	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB4	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB5	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB6	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB7	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB8	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB9	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH

(CPU-181(EXT) BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
FB10	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB11	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB12	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB13	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB14	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB15	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB16	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB21	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB22	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB23	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB24	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB25	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB26	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB27	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB28	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB29	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB30	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB31	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
FB32	1-410-397-21	s	FERRITE BEAD INDUCTOR 1.1uH
IC1	8-759-981-26	s	IC LT1081CN
IC2	8-759-292-95	s	IC HD64180ZRCP8
IC3	8-759-498-40	s	IC 27C256-CU V2.02
IC4	8-759-374-71	s	IC LC35256A-10
IC5	8-759-945-03	s	IC MB8422-12LP
IC6	8-759-913-42	s	IC PST520C-2
IC7	8-759-293-51	o	IC EP330-MEMDEC V1.00
IC8	8-759-293-50	o	IC EP330-IODEC V1.00
IC9	8-759-916-14	s	IC SN74HC04N
IC10	8-759-916-79	s	IC SN74HC273AN
IC11	8-759-916-79	s	IC SN74HC273AN
IC12	8-759-917-05	s	IC SN74HC541N
IC13	8-759-293-49	o	IC EPM7032-CONT V1.00
IC14	8-759-202-31	s	IC TC74HC162P
IC15	8-759-921-21	s	IC SN74HC163N
IC16	8-759-921-21	s	IC SN74HC163N
IC17	8-759-916-14	s	IC SN74HC04N
IC18	8-759-916-20	s	IC SN74HC14AN
IC19	8-759-289-44	s	IC LTC487CN
IC20	8-759-289-46	s	IC LTC485CN8
IC21	8-759-289-46	s	IC LTC485CN8
IC22	8-759-289-46	s	IC LTC485CN8
IC23	8-759-289-46	s	IC LTC485CN8
IC24	8-759-916-53	s	IC SN74HC166N
IC25	8-759-234-75	s	IC TC74HC4094AP
IC26	8-759-004-70	s	IC SN74HCT245N
IC28	8-759-916-16	s	IC MC74HC08AN
IC29	8-759-916-53	s	IC SN74HC166N
IC30	8-759-234-75	s	IC TC74HC4094AP
IC31	8-759-004-70	s	IC SN74HCT245N
IC32	8-759-916-53	s	IC SN74HC166N
IC33	8-759-234-75	s	IC TC74HC4094AP
IC34	8-759-004-70	s	IC SN74HCT245N
IC35	8-759-916-53	s	IC SN74HC166N
IC36	8-759-234-75	s	IC TC74HC4094AP
IC37	8-759-004-70	s	IC SN74HCT245N
IC38	8-759-032-81	s	IC MC74HC74N
IC39	8-759-921-22	s	IC SN74HC164AN
IC40	8-759-921-22	s	IC SN74HC164AN

(CPU-181(EXT) BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC44	8-759-917-05	s	IC SN74HC541N
JP1	1-564-950-21	o	PIN,CONNECTOR 8P
LF1	1-421-773-11	s	FILTER,NOISE
R1	1-247-855-31	s	CARBON 10K 5% 1/4W
R2	1-247-855-31	s	CARBON 10K 5% 1/4W
R3	1-249-433-11	s	CARBON 22K 5% 1/4W
R4	1-249-401-11	s	CARBON 47 5% 1/4W
R5	1-247-823-31	s	CARBON 470 5% 1/4W
R6	1-247-855-31	s	CARBON 10K 5% 1/4W
R7	1-247-855-31	s	CARBON 10K 5% 1/4W
R8	1-247-855-31	s	CARBON 10K 5% 1/4W
R9	1-247-855-31	s	CARBON 10K 5% 1/4W
R10	1-247-809-31	s	CARBON 120 5% 1/4W
R11	1-247-809-31	s	CARBON 120 5% 1/4W
R12	1-247-809-31	s	CARBON 120 5% 1/4W
R13	1-247-809-31	s	CARBON 120 5% 1/4W
R14	1-247-855-31	s	CARBON 10K 5% 1/4W
R15	1-247-855-31	s	CARBON 10K 5% 1/4W
R16	1-247-855-31	s	CARBON 10K 5% 1/4W
R17	1-247-807-31	s	CARBON 100 5% 1/4W
R18	1-247-855-31	s	CARBON 10K 5% 1/4W
R19	1-249-401-11	s	CARBON 47 5% 1/4W
RB1	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB2	1-231-525-00	s	RESISTOR BLOCK 4.7Kx4
RB3	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB4	1-231-405-00	s	RESISTOR BLOCK 1Kx8
RB5	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB6	1-231-385-00	s	RESISTOR BLOCK 4.7Kx8
RB7	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB8	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB9	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB10	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB11	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB12	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB13	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB14	1-231-410-00	s	RESISTOR BLOCK 10Kx8
S1	1-572-198-11	s	SWITCH,KEY BOARD
S2	1-516-925-21	s	SWITCH,DIP 8-CKT
X1	1-567-907-11	s	VIBRATOR,CRYSTAL

CPU-188 BOARD (SXA-120)

Ref. No. or Q'ty	Part No.	SP	Description
4pcs	7-682-547-04	s	SCREW +B 3x6
2pcs	7-685-134-19	s	SCREW +P 2.6x8 TYPE2 NON-SLIT
C1	1-126-394-11	s	ELECT,CHIP 10uF 20% 16V
C2	1-126-401-11	s	ELECT,CHIP 1uF 20% 50V
C3	1-126-401-11	s	ELECT,CHIP 1uF 20% 50V
C4	1-126-401-11	s	ELECT,CHIP 1uF 20% 50V
C5	1-126-401-11	s	ELECT,CHIP 1uF 20% 50V
C6	1-131-353-00	s	TANTALUM 10uF 10% 35V
C7	1-131-353-00	s	TANTALUM 10uF 10% 35V
C8	1-131-353-00	s	TANTALUM 10uF 10% 35V
C9	1-126-394-11	s	ELECT,CHIP 10uF 20% 16V
C10	1-126-394-11	s	ELECT,CHIP 10uF 20% 16V
C11	1-126-394-11	s	ELECT,CHIP 10uF 20% 16V
C12	1-107-778-11	s	ELECT 470uF 20% 16V
C101	1-126-401-11	s	ELECT,CHIP 1uF 20% 50V
C102	1-126-401-11	s	ELECT,CHIP 1uF 20% 50V
C103	1-126-401-11	s	ELECT,CHIP 1uF 20% 50V
C104	1-126-401-11	s	ELECT,CHIP 1uF 20% 50V
C105	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C106	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C107	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C108	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C109	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C110	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C111	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C112	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C113	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C114	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C115	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C116	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C117	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C118	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C119	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C120	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C121	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C122	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C123	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C124	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C125	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
C126	1-164-004-11	s	CERAMIC,CHIP 0.1uF 10% 25V
CN1	1-563-770-11	o	CONNECTOR,D-SUB 9P,FEMALE
CN2	1-766-855-11	o	CONNECTOR,RP13A TYPE
CN3	1-566-318-11	s	PLUG,D-SUB CONNECTOR 9P
CN4	1-508-845-00	o	PIN,CONNECTOR 6P
CN5	1-506-474-11	s	CONNECTOR 9P,MALE
CN6	1-580-838-11	o	PIN,CONNECTOR(PC BOARD) 4P
CNI2	1-526-662-21	o	SOCKET,IC(DP) 40P
CNI101	1-568-613-11	o	SOCKET,SIL 2P
CNI102	1-526-962-11	s	SOCKET,IC 68P
D1	8-719-800-40	s	DIODE TLR211
D2	8-719-800-40	s	DIODE TLR211
D3	8-719-800-40	s	DIODE TLR211
D4	8-719-800-40	s	DIODE TLR211
D5	8-719-800-40	s	DIODE TLR211
D6	8-719-800-40	s	DIODE TLR211
D7	8-719-800-40	s	DIODE TLR211

(CPU-188 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
D8	8-719-800-40	s	DIODE TLR211
D9	8-719-975-33	s	DIODE RB110C-T101
D10	8-719-500-41	s	DIODE D8LCA20
D11	8-719-157-33	s	DIODE RD6.2M-T1B
D12	8-719-157-33	s	DIODE RD6.2M-T1B
D13	8-719-157-33	s	DIODE RD6.2M-T1B
D14	8-719-157-33	s	DIODE RD6.2M-T1B
D15	8-719-800-40	s	DIODE TLR211
D16	8-719-975-33	s	DIODE RB110C-T101
D17	8-719-975-33	s	DIODE RB110C-T101
FB1	1-543-256-11	s	BEAD,FERRITE
FB2	1-543-256-11	s	BEAD,FERRITE
FB3	1-543-256-11	s	BEAD,FERRITE
FB4	1-543-256-11	s	BEAD,FERRITE
FB5	1-543-256-11	s	BEAD,FERRITE
FB6	1-543-256-11	s	BEAD,FERRITE
FB7	1-543-256-11	s	BEAD,FERRITE
FB8	1-543-256-11	s	BEAD,FERRITE
FB9	1-543-256-11	s	BEAD,FERRITE
FB10	1-543-256-11	s	BEAD,FERRITE
FB11	1-543-256-11	s	BEAD,FERRITE
FB12	1-543-256-11	s	BEAD,FERRITE
FB13	1-543-256-11	s	BEAD,FERRITE
FB14	1-543-256-11	s	BEAD,FERRITE
FB15	1-543-256-11	s	BEAD,FERRITE
FB16	1-543-256-11	s	BEAD,FERRITE
FB17	1-543-256-11	s	BEAD,FERRITE
FB18	1-543-256-11	s	BEAD,FERRITE
FB19	1-543-256-11	s	BEAD,FERRITE
FB20	1-543-256-11	s	BEAD,FERRITE
FB21	1-543-256-11	s	BEAD,FERRITE
FB22	1-543-256-11	s	BEAD,FERRITE
FB23	1-543-256-11	s	BEAD,FERRITE
FB24	1-543-256-11	s	BEAD,FERRITE
FB25	1-543-256-11	s	BEAD,FERRITE
FB26	1-543-256-11	s	BEAD,FERRITE
FB27	1-543-256-11	s	BEAD,FERRITE
FB28	1-543-256-11	s	BEAD,FERRITE
FB29	1-543-256-11	s	BEAD,FERRITE
FB30	1-543-256-11	s	BEAD,FERRITE
FB31	1-543-256-11	s	BEAD,FERRITE
FB32	1-543-256-11	s	BEAD,FERRITE
FB33	1-543-256-11	s	BEAD,FERRITE
IC1	8-759-099-76	s	IC TMP68301AFR-16
IC2	8-759-475-82	s	IC 27C1024-EXP V200
IC3	8-752-364-91	s	IC CXK58257BM-10LL
IC4	8-752-364-91	s	IC CXK58257BM-10LL
IC5	8-759-292-91	s	IC AT28C16-15SC
IC6	8-759-292-90	s	IC TMP82C51AM-2
IC7	8-759-243-09	s	IC TC74AC74F
IC8	8-759-244-04	s	IC TC74AC163F
IC9	8-759-244-04	s	IC TC74AC163F
IC10	8-759-243-62	s	IC TC74AC32F
IC11	8-759-243-06	s	IC TC74AC04F
IC12	8-759-243-09	s	IC TC74AC74F
IC13	8-759-925-81	s	IC SN74HC20ANS
IC14	8-759-926-11	s	IC SN74HC138ANS
IC15	8-759-925-85	s	IC SN74HC32ANS

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Ref. No. or Q'ty	Part No.	SP	Description
IC16	8-759-239-92	s	IC TC74HC07AF
IC17	8-759-926-48	s	IC SN74HC244NS
IC18	8-759-360-99	s	IC LT1134ACSW
IC19	8-759-289-43	s	IC LTC490CS8
IC20	8-759-913-42	s	IC PST520C-2
IC21	8-759-925-80	s	IC SN74HC14ANS
L1	1-414-158-11	s	INDUCTOR 2.2uH
PS101	⚠1-532-984-11	s	LINK,IC 2A
R1	1-216-073-00	s	METAL,CHIP 10K 5% 1/10W
R2	1-216-081-00	s	METAL,CHIP 22K 5% 1/10W
R3	1-216-073-00	s	METAL,CHIP 10K 5% 1/10W
R4	1-216-073-00	s	METAL,CHIP 10K 5% 1/10W
R5	1-216-073-00	s	METAL,CHIP 10K 5% 1/10W
R6	1-216-013-00	s	METAL,CHIP 33 5% 1/10W
R7	1-216-013-00	s	METAL,CHIP 33 5% 1/10W
R8	1-216-013-00	s	METAL,CHIP 33 5% 1/10W
R9	1-216-013-00	s	METAL,CHIP 33 5% 1/10W
R10	1-216-013-00	s	METAL,CHIP 33 5% 1/10W
R11	1-216-013-00	s	METAL,CHIP 33 5% 1/10W
R12	1-216-013-00	s	METAL,CHIP 33 5% 1/10W
R13	1-216-013-00	s	METAL,CHIP 33 5% 1/10W
R14	⚠1-212-877-11	s	FUSIBLE 68 5% 1/4W
R15	1-216-027-00	s	METAL,CHIP 120 5% 1/10W
R16	1-216-073-00	s	METAL,CHIP 10K 5% 1/10W
R17	1-216-073-00	s	METAL,CHIP 10K 5% 1/10W
R18	1-216-049-91	s	METAL,CHIP 1K 5% 1/10W
R19	1-216-073-00	s	METAL,CHIP 10K 5% 1/10W
R20	1-216-073-00	s	METAL,CHIP 10K 5% 1/10W
R21	1-216-073-00	s	METAL,CHIP 10K 5% 1/10W
R22	1-216-073-00	s	METAL,CHIP 10K 5% 1/10W
R23	1-216-013-00	s	METAL,CHIP 33 5% 1/10W
R24	1-216-013-00	s	METAL,CHIP 33 5% 1/10W
RB1	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB2	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB3	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB4	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB5	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB6	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB7	1-231-410-00	s	RESISTOR BLOCK 10Kx8
RB8	1-231-405-00	s	RESISTOR BLOCK 1Kx8
S1	1-570-623-11	s	SWITCH,DIP 8-CKT
S2	1-572-198-11	s	SWITCH,KEY BOARD
S3	1-570-602-11	s	SWITCH,DIP 2-CKT
X1	1-567-787-11	s	OSCILLATOR,CRYSTAL 32.00000MHz

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HP-65 BOARD (SX-M700/M100)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-994-A	o	MOUNTED CIRCUIT BOARD,HP-65
C1	1-126-964-11	s	ELECT 10uF 20% 50V
C2	1-126-964-11	s	ELECT 10uF 20% 50V
C3	1-126-964-11	s	ELECT 10uF 20% 50V
C4	1-102-112-00	s	CERAMIC 330pF 10% 50V
C5	1-126-949-11	s	ELECT 220uF 20% 35V
C6	1-126-964-11	s	ELECT 10uF 20% 50V
C7	1-126-964-11	s	ELECT 10uF 20% 50V
C8	1-130-471-51	s	MYLAR 0.001uF 5% 50V
C9	1-126-964-11	s	ELECT 10uF 20% 50V
C11	1-126-948-11	s	ELECT 100uF 20% 35V
C12	1-130-483-00	s	MYLAR 0.01uF 5% 50V
C13	1-102-074-00	s	CERAMIC 0.001uF 10% 50V
C14	1-102-074-00	s	CERAMIC 0.001uF 10% 50V
CN1	1-564-014-11	s	PIN,CONNECTOR 4P
CN2	1-564-013-11	o	PIN,CONNECTOR 3P
D1	8-719-920-76	s	DIODE 1SS119-25
D2	8-719-920-76	s	DIODE 1SS119-25
D3	8-719-920-76	s	DIODE 1SS119-25
D4	8-719-920-76	s	DIODE 1SS119-25
IC1	8-759-356-16	s	IC NJM4556AD
J1	1-507-863-51	s	JACK,PHONE
Q1	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
R1	1-249-436-11	s	CARBON 39K 5% 1/4W
R2	1-249-407-11	s	CARBON 150 5% 1/4W
R3	1-247-855-31	s	CARBON 10K 5% 1/4W
R4	1-247-855-31	s	CARBON 10K 5% 1/4W
R5	1-249-436-11	s	CARBON 39K 5% 1/4W
R6	1-249-436-11	s	CARBON 39K 5% 1/4W
R7	1-249-432-11	s	CARBON 18K 5% 1/4W
R8	1-249-433-11	s	CARBON 22K 5% 1/4W
R9	1-249-417-11	s	CARBON 1K 5% 1/4W
R10	1-249-401-11	s	CARBON 47 5% 1/4W
R11	1-249-401-11	s	CARBON 47 5% 1/4W
R12	1-249-424-11	s	CARBON 3.9K 5% 1/4W
R13	1-247-855-31	s	CARBON 10K 5% 1/4W
R14	1-247-855-31	s	CARBON 10K 5% 1/4W
R15	1-247-855-31	s	CARBON 10K 5% 1/4W
RV1	1-237-715-11	s	RES,VAR,CARBON 10K
RV2	1-238-165-11	s	RES,ADJ,CARBON 470

MT-105 BOARD (SX-M700/M100)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-518-393-00	s	LAMP,PILOT
1pc	1-654-374-11	o	PRINTED CIRCUIT BOARD,MT-105
1pc	1-954-072-11	o	HARNESS,COLDWELDING H17
ME1	1-520-439-00	s	METER,VU
R1	1-216-428-00	s	METAL 180 5% 1W
R2	1-216-428-00	s	METAL 180 5% 1W

PS-363 BOARD (SX-M700/M100/E120)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-654-127-11	o	PRINTED CIRCUIT BOARD,PS-363
2pcs	1-533-189-11	s	HOLDER,FUSE
C901	⚠ 1-136-951-11	s	FILM 0.1uF 20% 250V
CN901	⚠ 1-580-375-11	s	INLET 3P
FB902	1-500-082-11	s	CLAMP,SLEEVE FERRITE
L901	⚠ 1-409-964-11	s	COIL,LINE FILTER
R901	1-214-945-00	s	METAL 2.2M 1% 1/2W

PS-364 BOARD (SX-M700/M100/E120)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8265-473-A	o	MOUNTED CIRCUIT BOARD,PS-364 (J,EK MODEL)
	A-8312-940-A	o	MOUNTED CIRCUIT BOARD,PS-364 (U MODEL)
1pc	3-161-137-01	o	SPACER,LED
2pcs	2-434-297-01	o	BRACKET(DP-UR17)
2pcs	4-875-409-01	s	INSULATOR(E)
4pcs	7-682-949-01	s	SCREW +PSW 3x10
C902	1-136-212-12	s	FILM 0.1uF 20% 250V
C903	1-113-925-11	s	CERAMIC 0.01uF 20% 250V (J,EK MODEL)
	1-162-599-12	s	CERAMIC 0.0047uF 20% 400V (U MODEL)
C904	1-113-925-11	s	CERAMIC 0.01uF 20% 250V (J,EK MODEL)
	1-162-599-12	s	CERAMIC 0.0047uF 20% 400V (U MODEL)
C905	1-113-925-11	s	CERAMIC 0.01uF 20% 250V (J,EK MODEL)
	1-162-599-12	s	CERAMIC 0.0047uF 20% 400V (U MODEL)
C906	1-125-318-00	s	ELECT BLOCK 220uF 20% 400V
C907	1-125-318-00	s	ELECT BLOCK 220uF 20% 400V
C908	1-113-924-11	s	CERAMIC 0.0047uF 20% 250V (J,EK MODEL)
	1-113-920-11	s	CERAMIC 0.0022uF 20% 250V (U MODEL)
C909	1-113-924-11	s	CERAMIC 0.0047uF 20% 250V (J,EK MODEL)
	1-113-920-11	s	CERAMIC 0.0022uF 20% 250V (U MODEL)
C910	1-113-924-11	s	CERAMIC 0.0047uF 20% 250V (J,EK MODEL)
	1-113-920-11	s	CERAMIC 0.0022uF 20% 250V (U MODEL)
C911	1-127-511-11	s	ELECT SOLID 6.8uF 20% 25V
C912	1-127-508-00	s	ELECT SOLID 2.2uF 20% 25V
C913	1-130-499-00	s	MYLAR 0.22uF 5% 50V
C914	1-130-475-00	s	MYLAR 0.0022uF 5% 50V
C915	1-127-510-00	s	ELECT SOLID 4.7uF 20% 25V
C916	1-127-508-00	s	ELECT SOLID 2.2uF 20% 25V
C917	1-104-666-11	s	ELECT 220uF 20% 25V
C918	1-130-475-00	s	MYLAR 0.0022uF 5% 50V
C919	1-113-905-11	s	CERAMIC 220pF 10% 125V
C920	1-113-905-11	s	CERAMIC 220pF 10% 125V
C921	1-130-471-51	s	MYLAR 0.001uF 5% 50V
C922	1-161-830-00	s	CERAMIC 4700pF 10% 500V
C923	1-161-830-00	s	CERAMIC 4700pF 10% 500V
C924	1-111-097-11	s	ELECT 2200uF 20% 35V
C925	1-130-487-00	s	MYLAR 0.022uF 5% 50V
C926	1-111-097-11	s	ELECT 2200uF 20% 35V
C927	1-111-097-11	s	ELECT 2200uF 20% 35V
C928	1-111-097-11	s	ELECT 2200uF 20% 35V
C929	1-111-097-11	s	ELECT 2200uF 20% 35V
C930	1-126-948-11	s	ELECT 100uF 20% 35V
C931	1-126-948-11	s	ELECT 100uF 20% 35V
C932	1-126-942-61	s	ELECT 1000uF 20% 25V
C933	1-127-513-00	s	ELECT SOLID 15uF 20% 25V
C934	1-130-471-51	s	MYLAR 0.001uF 5% 50V

(PS-364 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C935	1-128-339-11	s	ELECT 2200uF 20% 16V
C936	1-127-558-11	s	ELECT SOLID 10uF 20% 10V
C937	1-127-558-11	s	ELECT SOLID 10uF 20% 10V
C938	1-113-920-11	s	CERAMIC 0.0022uF 20% 250V (J,EK MODEL)
CN903	1-691-291-11	o	PIN,CONNECTOR(PC BOARD) 5P
CN904	1-580-838-11	o	PIN,CONNECTOR(PC BOARD) 4P
CN905	1-580-838-11	o	PIN,CONNECTOR(PC BOARD) 4P
CN906	1-508-796-00	o	PIN,CONNECTOR 2P
CN907	1-508-743-00	o	PIN,CONNECTOR 5P
CN908	1-508-797-00	o	PIN,CONNECTOR 4P
D901	8-719-510-53	s	DIODE RBV-406H
D902	8-719-920-76	s	DIODE 1SS119-25
D903	8-719-920-76	s	DIODE 1SS119-25
D904	8-719-981-55	s	DIODE GL8HD22
D905	8-719-051-44	s	DIODE MA7200
D906	8-719-302-21	s	DIODE EU2Z
D907	8-719-051-39	s	DIODE MA7120
D908	8-719-920-76	s	DIODE 1SS119-25
D909	8-719-920-76	s	DIODE 1SS119-25
D910	8-719-312-91	s	DIODE RY24
D911	8-719-312-91	s	DIODE RY24
D912	8-719-018-66	s	DIODE ES1F-N
D913	8-719-018-66	s	DIODE ES1F-N
D914	8-719-500-71	s	DIODE D8LC40
D915	8-719-500-71	s	DIODE D8LC40
D916	8-719-982-04	s	DIODE ERB81-004
D917	8-719-981-50	s	DIODE RB100A-T31
D918	8-719-981-50	s	DIODE RB100A-T31
D919	8-719-051-47	s	DIODE MA7270
IC901	8-759-140-84	s	IC UPC1094C
IC902	8-759-140-85	s	IC UPC1093J
IC903	8-759-265-48	s	IC LM2575T-ADJ
IC904	8-759-038-43	s	IC MC34063AP1
L902	1-421-590-00	s	FILTER,LINE
L903	1-412-549-31	s	INDUCTOR 1mH
L904	1-414-493-31	s	INDUCTOR 4.7mH
L905	1-414-496-25	s	INDUCTOR 10mH
L906	1-414-048-11	s	COIL,CHOKE 100uH
L907	1-421-329-00	s	COIL,CHOKE
L908	1-410-948-11	s	INDUCTOR 100uH
L910	1-410-948-11	s	INDUCTOR 100uH
L911	1-408-110-00	s	INDUCTOR 2.7uH
L912	1-408-110-00	s	INDUCTOR 2.7uH
PH901	8-749-013-43	s	IC TLP733F(D4)
Q901	8-729-620-05	s	TRANSISTOR 2SC2603-EF
Q902	8-729-119-76	s	TRANSISTOR 2SA1115P
Q904	8-729-119-80	s	TRANSISTOR 2SC2688-L
Q905	8-729-209-64	s	TRANSISTOR 2SK792
Q906	8-729-209-64	s	TRANSISTOR 2SK792
R902	1-214-945-00	s	METAL 2.2M 1% 1/2W
R903	1-249-433-11	s	CARBON 22K 5% 1/4W
R904	1-249-407-11	s	CARBON 150 5% 1/4W
R905	1-249-438-11	s	CARBON 56K 5% 1/4W

(PS-364 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R906	1-249-435-11	s	CARBON 33K 5% 1/4W
R907	1-249-433-11	s	CARBON 22K 5% 1/4W
R908	1-247-825-31	s	CARBON 560 5% 1/4W
R909	1-249-439-11	s	CARBON 68K 5% 1/4W
R910	1-249-430-11	s	CARBON 12K 5% 1/4W
R911	1-249-435-11	s	CARBON 33K 5% 1/4W
R912	⚠ 1-212-865-00	s	FUSIBLE 22 5% 1/4W
R913	⚠ 1-212-853-00	s	FUSIBLE 6.8 5% 1/4W
R914	1-247-885-00	s	CARBON 180K 5% 1/4W
R915	1-247-885-00	s	CARBON 180K 5% 1/4W
R916	1-249-435-11	s	CARBON 33K 5% 1/4W
R917	1-215-923-00	s	METAL 10K 5% 3W
R918	1-215-924-00	s	METAL 15K 5% 3W
R919	1-247-855-31	s	CARBON 10K 5% 1/4W
R920	1-249-404-00	s	CARBON 82 5% 1/4W
R921	1-249-381-11	s	CARBON 1 5% 1/4W
R922	1-247-883-00	s	CARBON 150K 5% 1/4W
R923	1-215-906-11	s	METAL 15 5% 3W
R924	1-247-887-00	s	CARBON 220K 5% 1/4W
R925	1-249-417-11	s	CARBON 1K 5% 1/4W
R926	1-249-411-11	s	CARBON 330 5% 1/4W
R927	1-249-432-11	s	CARBON 18K 5% 1/4W
R928	1-247-839-31	s	CARBON 2.2K 5% 1/4W
R929	1-249-427-11	s	CARBON 6.8K 5% 1/4W
R930	1-247-839-31	s	CARBON 2.2K 5% 1/4W
R931	1-249-381-11	s	CARBON 1 5% 1/4W
R932	1-249-381-11	s	CARBON 1 5% 1/4W
R933	1-249-418-11	s	CARBON 1.2K 5% 1/4W
R934	1-247-844-11	s	CARBON 3.6K 5% 1/4W
R935	1-249-417-11	s	CARBON 1K 5% 1/4W
R936	1-249-381-11	s	CARBON 1 5% 1/4W
R937	1-249-411-11	s	CARBON 330 5% 1/4W
R938	1-247-847-31	s	CARBON 4.7K 5% 1/4W
RV901	1-230-523-11	s	RES,ADJ METAL 10K
RV902	1-237-723-11	s	RES,ADJ,CARBON 4.7K
T901	1-424-687-11	s	TRANSFORMER,CURRENT
T902	1-427-634-11	s	CONVERTER TRANSFORMER
TH901	1-809-531-11	s	THERMISTOR,POWER
VDR901	1-806-356-00	s	VARISTOR ENB461-10A
VDR902	1-810-074-11	s	VARISTOR ENC271D-07A

SW-704 BOARD (SX-T100)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-654-218-11	o	PRINTED CIRCUIT BOARD,SW-704
1pc	7-623-513-01	s	LUG,6
CN1	1-954-051-11	o	HARNESS(SW/AU)
CN2	1-506-485-11	s	CONNECTOR 6P,MALE
D1	8-719-305-08	s	DIODE SEL2311G
S1	1-553-629-00	s	SWITCH,TOGGLE

SW-710 BOARD (SX-M700)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-654-417-11	o	PRINTED CIRCUIT BOARD,SW-710
CN1	1-506-486-11	s	CONNECTOR 7P,MALE
R1	1-249-417-11	s	CARBON 1K 5% 1/4W
R2	1-249-417-11	s	CARBON 1K 5% 1/4W
R3	1-249-417-11	s	CARBON 1K 5% 1/4W
S1	1-692-231-11	s	SWITCH,TACTIL
S2	1-692-231-11	s	SWITCH,TACTIL
S3	1-692-231-11	s	SWITCH,TACTIL

SW-722 BOARD (SX-M700)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-654-375-11	o	PRINTED CIRCUIT BOARD,SW-722
1pc	1-500-082-11	s	CLAMP,SLEEVE FERRITE
CN1	1-954-070-11	o	HARNESS,COLDWELDING H14
CN2	1-506-489-11	s	CONNECTOR 10P,MALE
S1	1-762-218-11	s	SWITCH,ROTARY

SW-723 BOARD (SX-M700)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-654-376-11	o	PRINTED CIRCUIT BOARD,SW-723
1pc	1-954-068-12	o	HARNESS,COLDWELDING H12
S1	1-762-219-11	s	SWITCH,ROTARY

TR-107 BOARD (SX-M700/M100)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-665-849-11	o	PRINTED CIRCUIT BOARD,TR-107
CN1	1-564-005-11	o	CONNECTOR 6P,MALE
CN2	1-506-469-11	s	CONNECTOR 4P,MALE
R1	1-249-400-11	s	CARBON 39 5% 1/4W
R2	1-249-427-11	s	CARBON 6.8K 5% 1/4W
T1	1-427-586-11	s	TRANSFORMER,INPUT/OUTPUT

VR-237 BOARD (SX-M700/M100)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-665-851-11	o	PRINTED CIRCUIT BOARD,VR-237
CN1	1-506-488-11	s	CONNECTOR 9P,MALE
CN2	1-564-013-11	o	PIN,CONNECTOR 3P
R1	1-249-424-11	s	CARBON 3.9K 5% 1/4W
RV1	1-237-715-11	s	RES,VAR,CARBON 10K
RV2	1-237-715-11	s	RES,VAR,CARBON 10K
RV3	1-237-715-11	s	RES,VAR,CARBON 10K
RV4	1-237-715-11	s	RES,VAR,CARBON 10K

FRAME (SX-M700/M100)

Ref. No. or Q'ty	Part No.	SP	Description
CN110	⚠ 1-563-029-21	s	CONNECTOR(RECEPTACLE) 3P
CN118	1-770-022-11	o	CONNECTOR,RP TYPE 6P
F901	⚠ 1-532-703-00	s	FUSE 4A(J,U MODEL)
	⚠ 1-576-233-41	s	FUSE 4A(EK MODEL)
FC422	1-953-965-11	o	CABLE,FLAT 422
H10	1-954-066-11	o	HARNESS,PRESSURE WELDING H10
H11	1-954-067-11	o	HARNESS,PRESSURE WELDING H11
H12	1-954-068-12	o	HARNESS,PRESSURE WELDING H12 (SX-M700)
H13	1-954-069-11	o	HARNESS,PRESSURE WELDING H13 (SX-M700)
H14	1-954-070-11	o	HARNESS,PRESSURE WELDING H14 (SX-M700)
H15	1-954-071-11	o	HARNESS,PRESSURE WELDING H15
H17	1-954-072-11	o	HARNESS,PRESSURE WELDING H17
H18	1-954-073-11	o	HARNESS,PRESSURE WELDING H18
H23	1-954-219-11	o	HARNESS,PRESSURE WELDING H23 (SX-M100)
H-A	1-957-065-11	o	HARNESS,COLDWELDING H-A
H-C/S	1-954-050-11	o	HARNESS(CN/SW)
H-SW	1-953-967-11	o	HARNESS,PRESSUR WELDING SW
MIC VR	1-957-868-11	o	HARNESS,PRESSURE WELDING,MIC VR
S901	1-570-384-11	o	SWITCH,SEESAW(AC POWER)
TR1	1-957-866-11	o	HARNESS,PRESSURE WELDING,TR1
TR2	1-957-867-11	o	HARNESS,PRESSURE WELDING,TR2
HARNESS,SOLDERESS H-DP			
CN3/CPU-181 to CN908/PS-364			
2pcs	1-561-148-00	o	HOUSING,CONNECTOR 4P
HARNESS,PRESS H19			
CN902/AA-93(AA-93X) to CN907/PS-364			
2pcs	1-561-149-00	o	HOUSING,CONNECTOR 5P
HARNESS,PRESS H20			
CN901/AA-93(AA-93X) to CN904/PS-364			
2pcs	1-562-285-11	o	HOUSING,CONNECTOR 4P

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FRAME (SX-E120)
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Ref. No.
or Q'ty  Part No.    SP Description

 CN901 ⚠ 1-580-375-11 s INLET,3P(AC IN)
 D901     8-719-950-10 s DIODE SDB505B-GD
 F901  ⚠ 1-532-703-00 s FUSE 4A (J,U MODEL)
       ⚠ 1-576-233-41 s FUSE(H.B.C.) 4A (EK MODEL)
 F422     1-953-965-11 o CABLE,FLAT 422
 H25      1-954-063-11 o HARNESS,COLDWELDING H25

 H26      1-954-064-11 o HARNESS,COLDWELDING H26
 H-B      1-954-064-11 o HARNESS,COLDWELDING B
 RY901    1-755-063-11 s RELAY,POWER
 S901  ⚠ 1-570-384-11 s SWITCH,ROCKER (AC POWER)

 HARNESS,PRESS H24
   CN908/AL-31 to RY901
    1pc  1-561-146-00 o HOUSING,CONNECTOR 2P

 HARNESS,SOLDERLESS DP
   CN3/CPU-181(EXT) to CN908/PS-364
    2pcs 1-561-148-00 o HOUSING,CONNECTOR 4P

 HARNESS,PRESS H19
   CN907/AL-31 to CN907/PS-364
    2pcs 1-561-149-00 o HOUSING,CONNECTOR 5P

 HARNESS,PRESS H20
   CN905/AL-31 to CN905/PS-364
    2pcs 1-562-285-11 o HOUSING,CONNECTOR 4P

 HARNESS,PRESS H21
   CN904/AL-31 to CN904/PS-364
    2pcs 1-562-285-11 o HOUSING,CONNECTOR 4P
```

```
-----
FRAME (SX-T100)
-----
Ref. No.
or Q'ty  Part No.    SP Description

 CN101    1-770-022-11 o CONNECTOR,RP TYPE 6P
 H-C/S    1-954-050-11 o HARNESS,(CN/SW)

 1pc      1-759-005-11 o COUPLER,ACOUSTIC
```

```
-----
FRAME (SXA-120)
-----
Ref. No.
or Q'ty  Part No.    SP Description

H-AU    1-953-968-11 o HARNESS,PRESSURE WELDING AU

  HARNESS,SOLDERESS RS
   CN4/CPU-188(SXA-120) to CN1/CPU-181(SX-M700/M100)
     2pcs  1-561-150-00 o HOUSING,CONNECTOR 6P

  HARNESS,PRESS DP2
   CN6/CPU-188(SXA-120) to CN905/PS-364(SX-M700/M100)
     2pcs  1-562-285-11 o HOUSING,CONNECTOR 4P
```

```
---------------------------------------
PACKING MATERIALS & SUPPLIED ACCESSORIES (SX-M700/M100)
---------------------------------------
Ref. No.
or Q'ty  Part No.    SP Description

   1pc ⚠ 1-782-059-11 s CORD,POWER(J MODEL)
       ⚠ 1-551-812-11 s CORD,POWER 3P(U MODEL)
       ⚠ 1-590-910-11 s CORD,AC POWER 3P(EK MODEL)
    2pcs  3-165-048-02 o CUSHION
    1pc   3-186-730-01 o INDIVIDUAL CARTON(SX-M700)
          3-187-387-01 o INDIVIDUAL CARTON(SX-M100)
    1pc   3-759-748-03 s MANUAL,INSTRUCTION(J MODEL)
                                      (SX-M700)
          3-759-748-14 s MANUAL,INSTRUCTION(U,EK MODEL)
                                      (SX-M700)
          3-759-749-03 s MANUAL(LARGE),INSTRUCTION
                                      (J MODEL)(SX-M100)
          3-759-749-13 s MANUAL(LARGE),INSTRUCTION
                                      (U,EK MODEL)(SX-M100)
```

```
---------------------------------------
PACKING MATERIALS & SUPPLIED ACCESSORIES (SX-E120)
---------------------------------------
Ref. No.
or Q'ty  Part No.    SP Description

   2pcs  1-543-798-11 s FILTER,CLAMP(FERRITE CORE)
                                   (EK MODEL)
   1pc ⚠ 1-782-059-11 s CORD,POWER(J MODEL)
       ⚠ 1-551-812-11 s CORD,POWER 3P(U MODEL)
       ⚠ 1-590-910-11 s CORD,AC POWER 3P(EK MODEL)
   1pc   1-769-333-11 s CORD,CONNECTION
   2pc   3-165-048-02 o CUSHION
   1pc   3-186-743-01 o INDIVIDUAL CARTON
```

```
---------------------------------------
PACKING MATERIALS & SUPPLIED ACCESSORIES (SX-T100)
---------------------------------------
Ref. No.
or Q'ty  Part No.    SP Description

   1pc   1-769-212-11 o CORD,TEL,U CONNECTION
   2pcs  3-187-719-01 o CUSHION
   1pc   3-187-720-01 o INDIVIDUAL CARTON
```

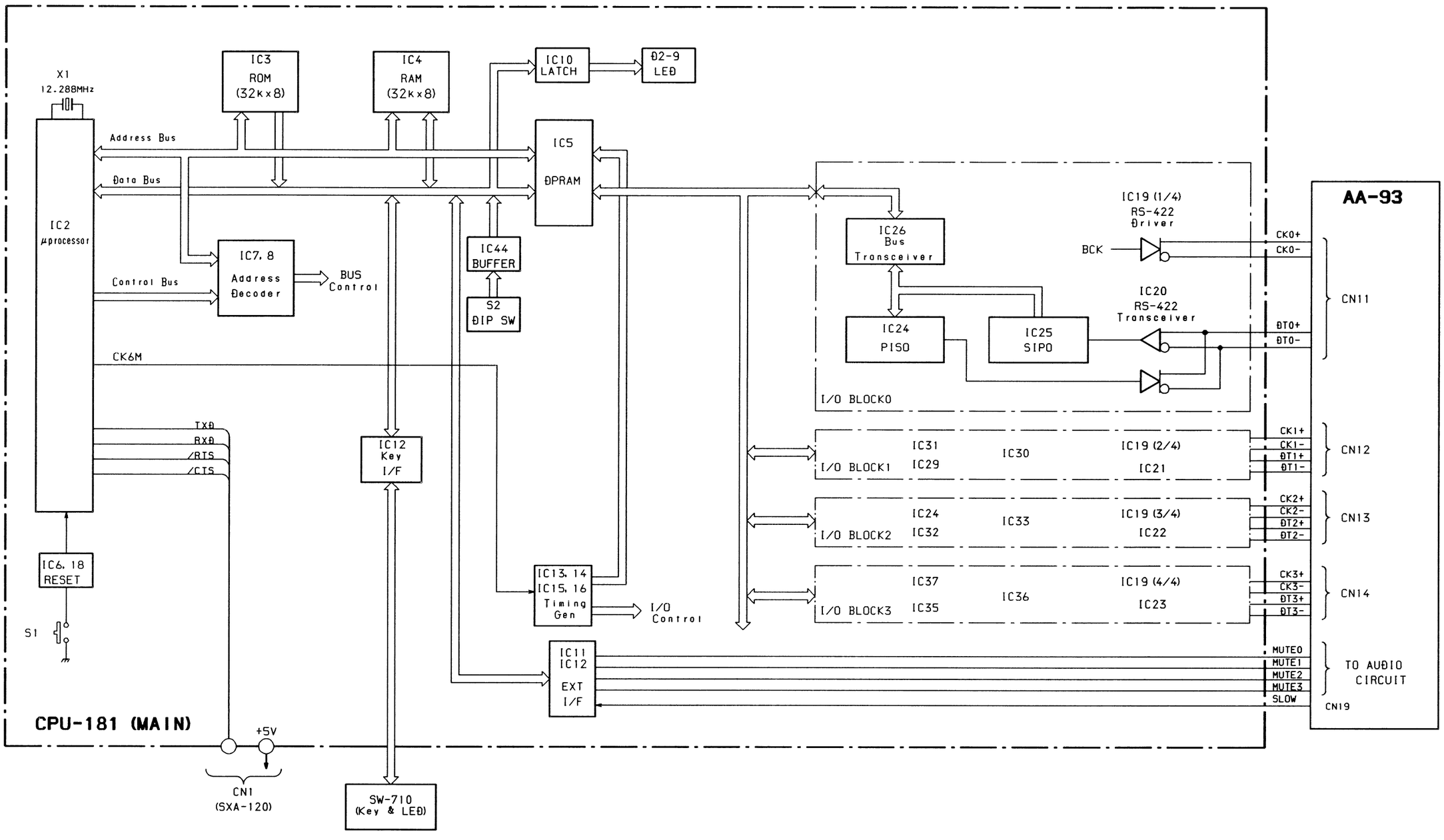
```
---------------------------------------
PACKING MATERIALS & SUPPLIED ACCESSORIES (SXA-120)
---------------------------------------
Ref. No.
or Q'ty  Part No.    SP Description

   2pcs  3-186-486-01 o CUSHION
   1pc   3-186-722-01 o INDIVIDUAL CARTON
   1pc   3-759-750-01 s MANUAL,INSTRUCTION
   2pcs  7-623-421-07 s LW 2.6, TYPE B
   4pcs  7-682-948-01 s SCREW +PSW 3x8

   2pcs  7-685-133-19 s SCREW +P 2.6x6  TYPE2 NON-SLIT
```

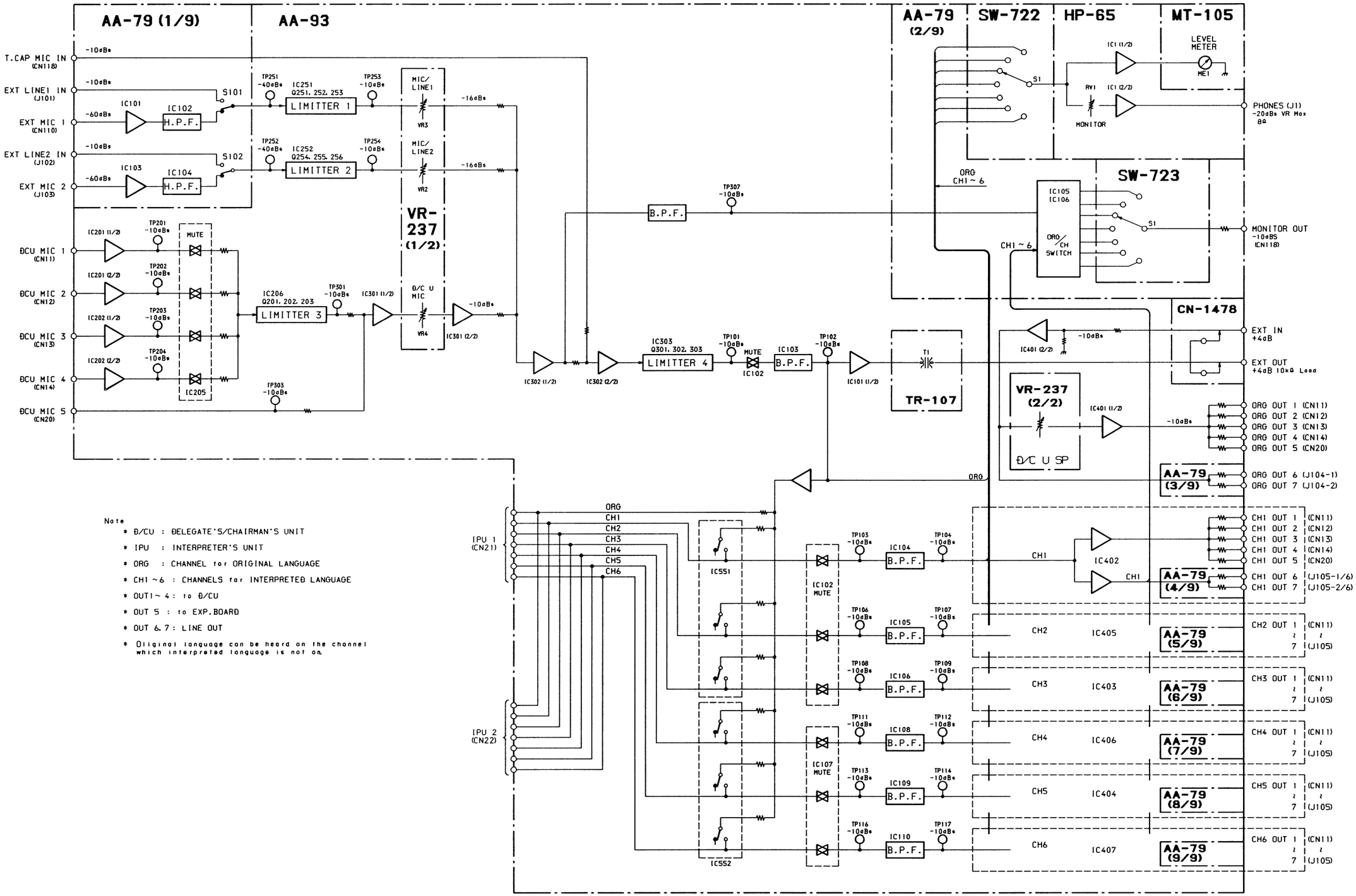
SECTION 8
BLOCK DIAGRAMS

SX-M700/M100 : DIGITAL



DIGITAL BLOCK

SX-M700 : AUDIO

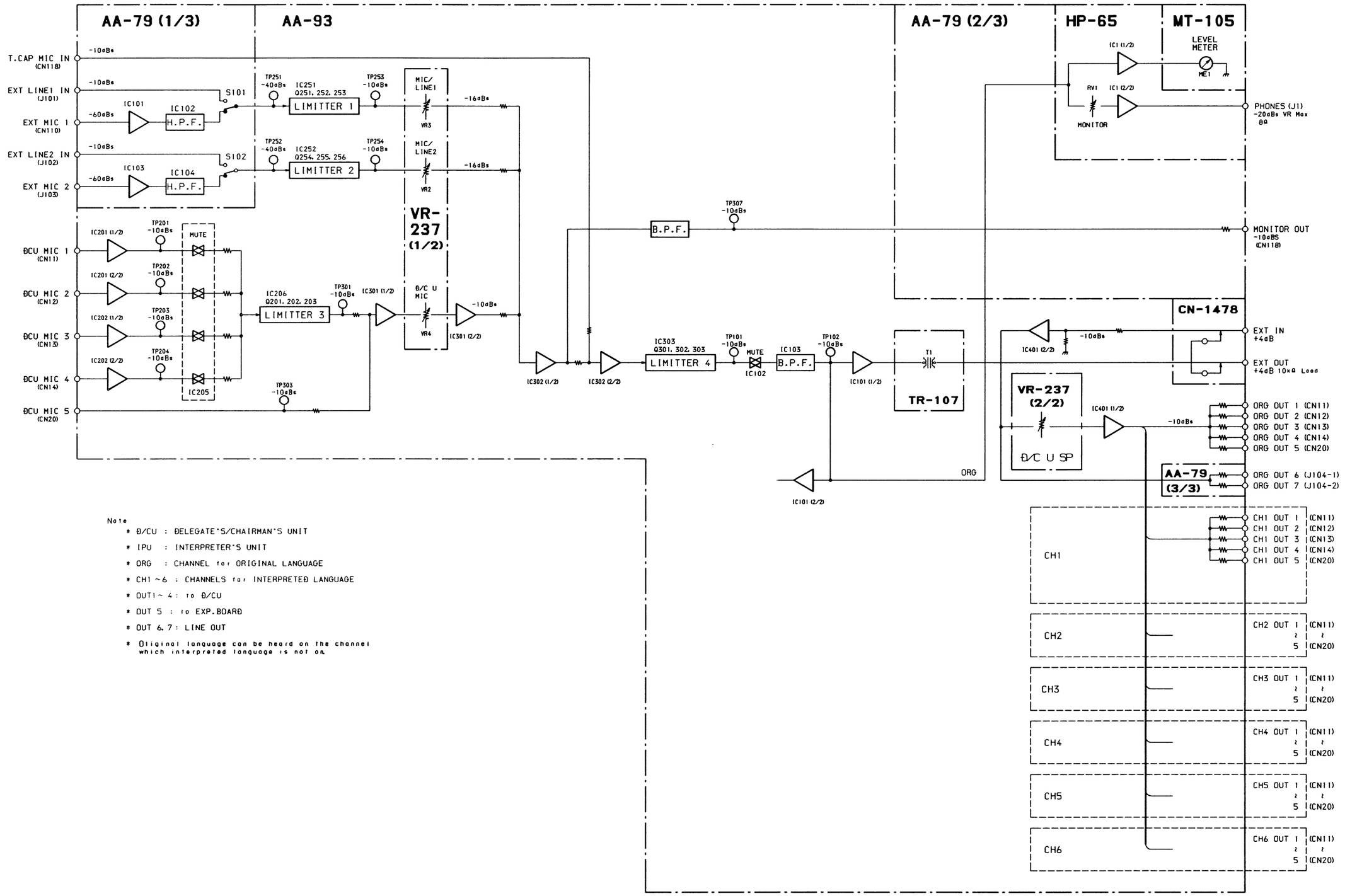


Note

* θ/CU : θELEGATE'S/CHAIRMAN'S UNIT
* IPU : INTERPRETER'S UNIT
* ORG : CHANNEL for ORIGINAL LANGUAGE
* CH1 ~ 6 : CHANNELS for INTERPRETED LANGUAGE
* OUT1 ~ 4 : to θ/CU
* OUT 5 : to EXP.BOARD
* OUT 6, 7 : LINE OUT
* Original language can be heard on the channel which interpreted language is not on.

AUDIO BLOCK

SX-M100 : AUDIO

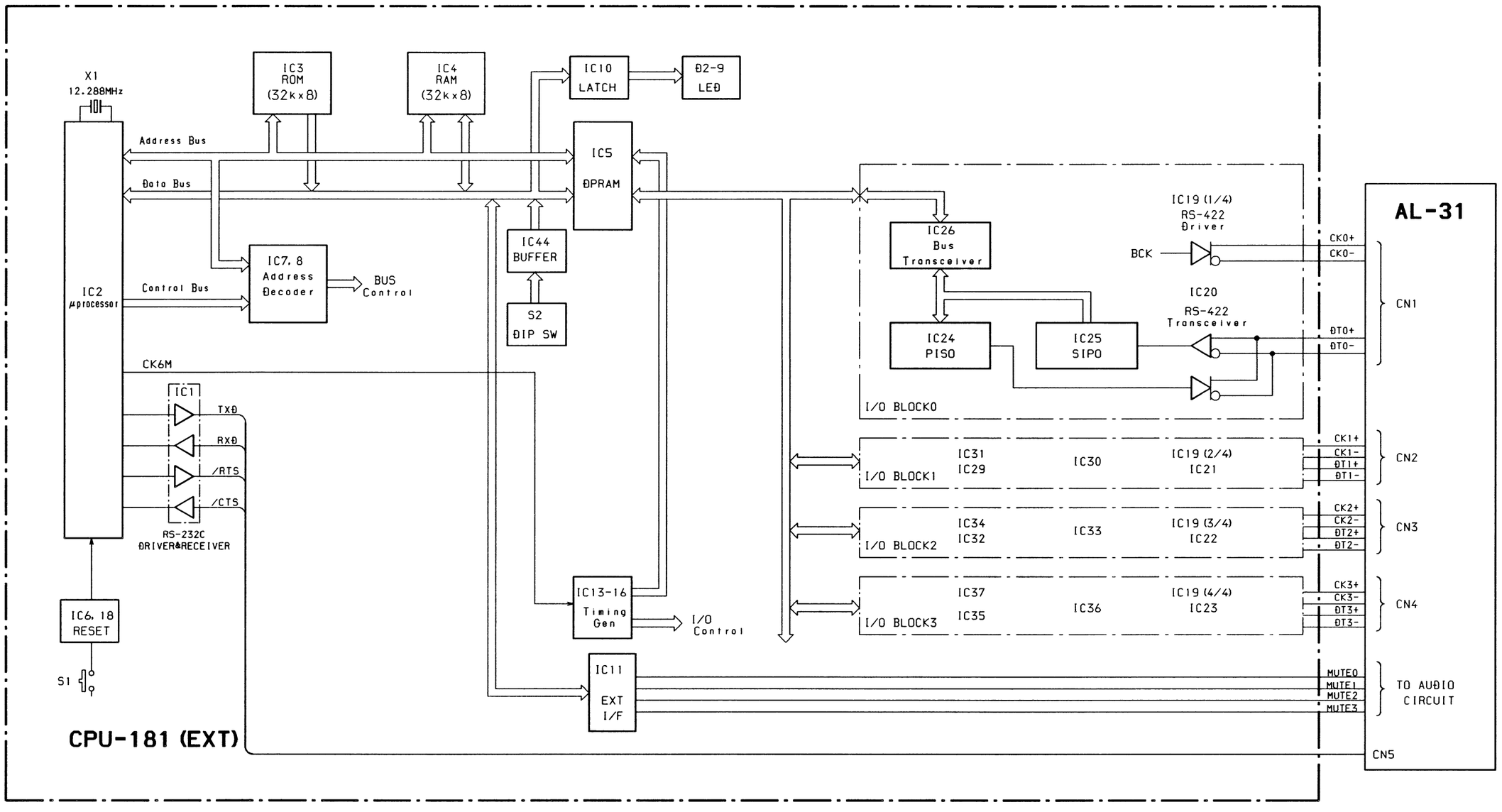


Note

* Ð/CU : ÐELEGATE'S/CHAIRMAN'S UNIT
* IPU : INTERPRETER'S UNIT
* ORG : CHANNEL for ORIGINAL LANGUAGE
* CH1 ~ 6 : CHANNELS for INTERPRETEÐ LANGUAGE
* OUT1 ~ 4 : to Ð/CU
* OUT 5 : to EXP.BOARÐ
* OUT 6, 7 : LINE OUT
* Original language can be heard on the channel which interpreted language is not on.

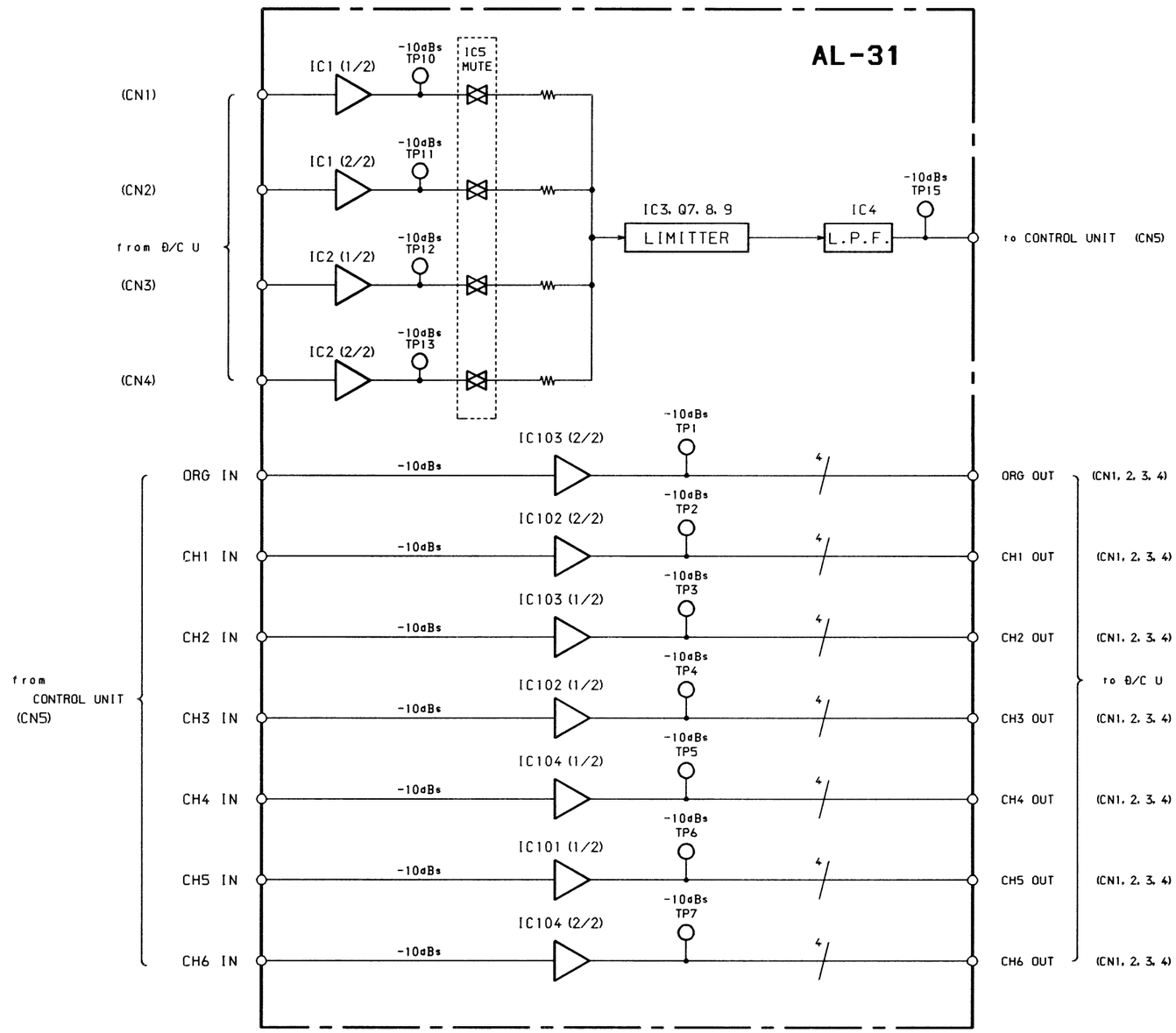
AUDIO BLOCK

SX-E120 : DIGITAL



DIGITAL BLOCK

SX-E120 : AUDIO



SIGNAL FREQUENCY: 1KHz

Note

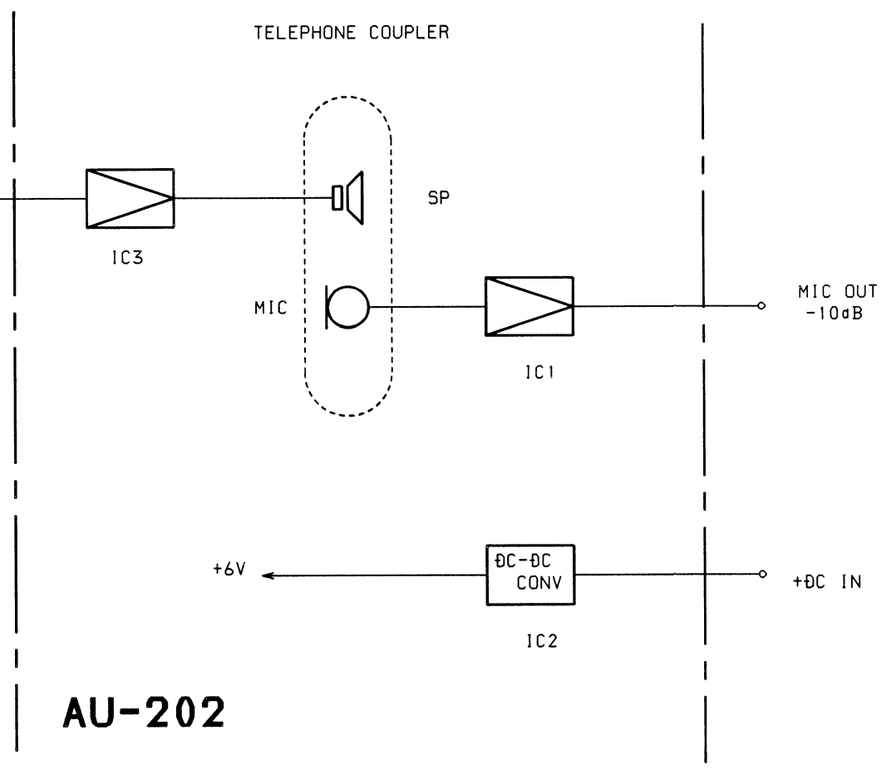
Ð/C U : ÐELEGATE'S/CHAIRMAN'S UNIT

EXPANSION BOARÐ SXA-120 SHOULÐ BE ATTACHEÐ TO CONTROL UNIT PRIOR TO CONNECTING SX-E120

AUDIO BLOCK

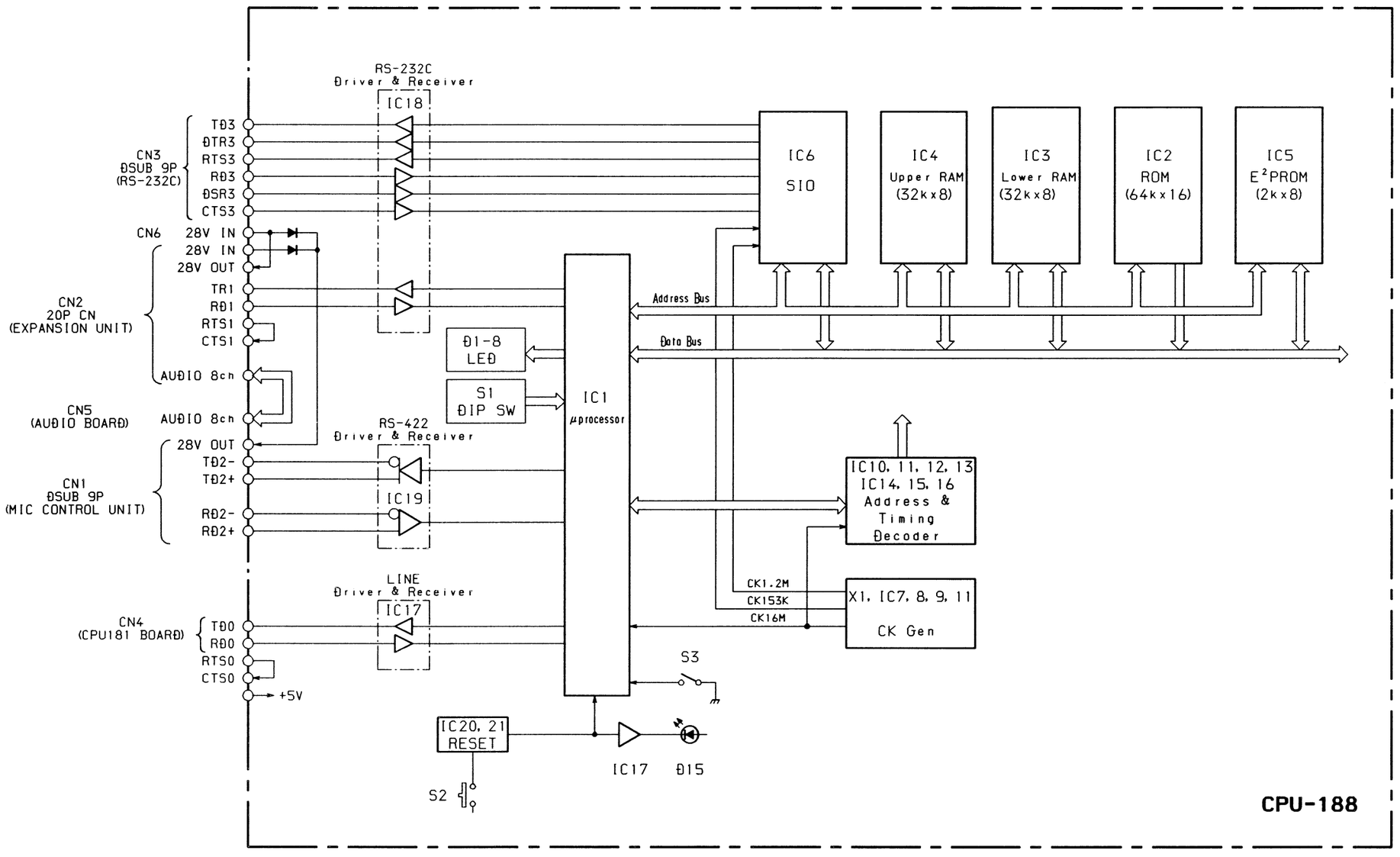
http://getMANUAL.com

SX-T100 : AU-202



AU-202 BLOCK

SXA-120 : AUDIO

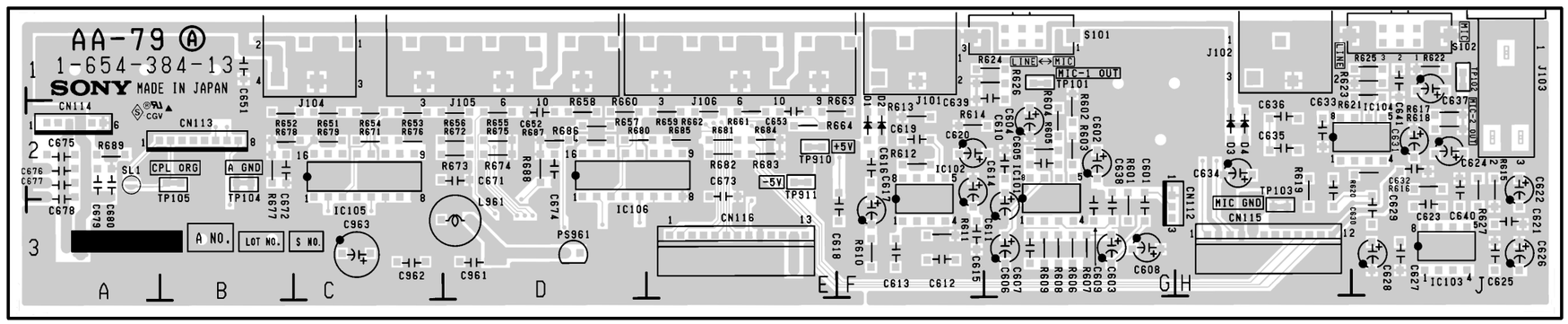


CPU-188 BLOCK

SECTION 9
BOARD LAYOUTS AND SCHEMATIC DIAGRAMS

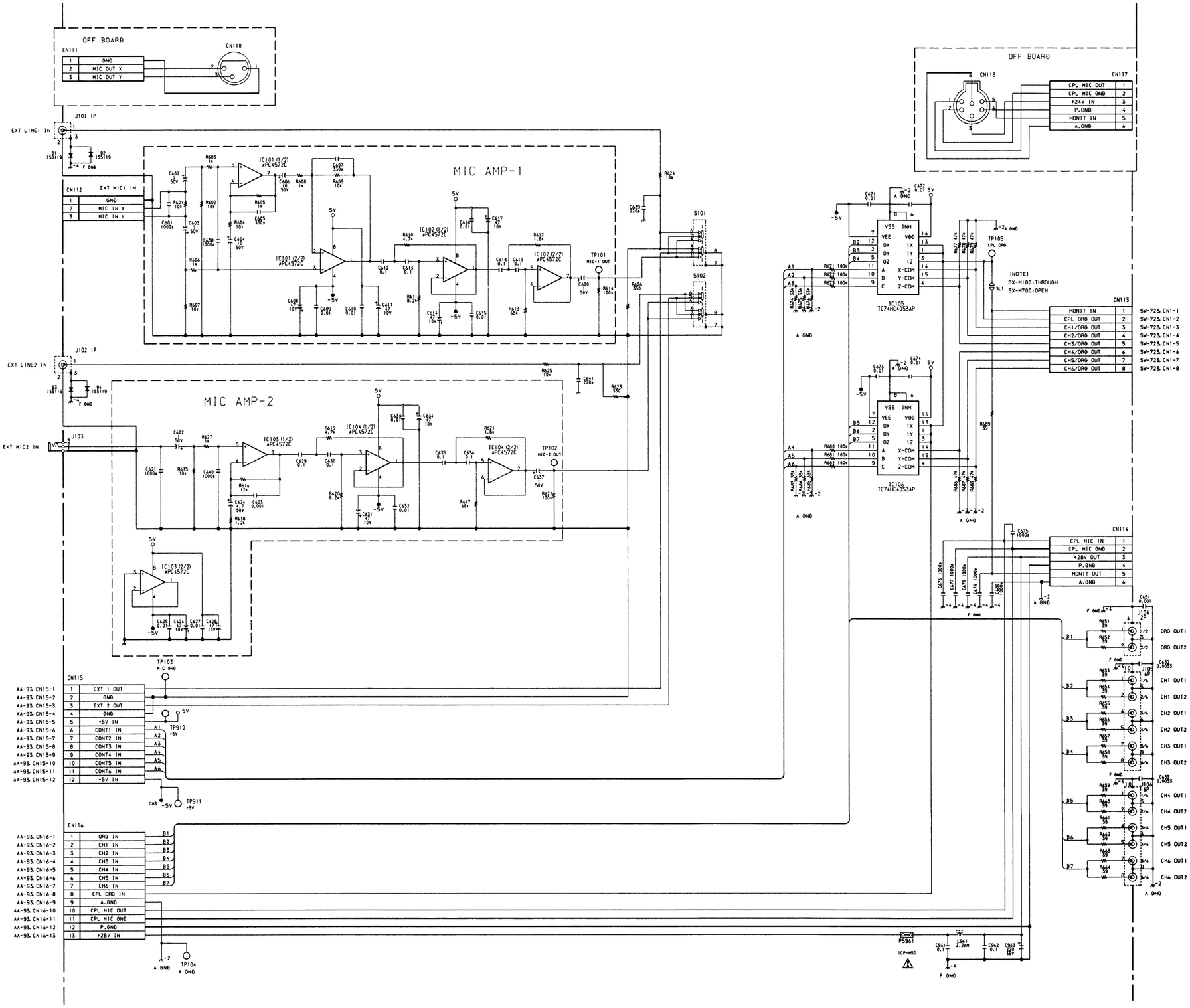
Board Name	Circuit Function	Page
AA-79/79X	Audio Interface (MIC, LINE, TELEPHONE COUPLER)	9-2
AA-93/93X	Audio Interface (Chairman's & Delegate's & Interpreter's units) Changed MASTER VR position & Audio Analog Limiter Level	9-6
AL-31	Expansion Interface (Chairman's & Delegate's units) Changed Audio Analog Limiter Level	9-18
AU-202	Telephone Coupler's Audio board	9-22
SW-704	POWER sw & POWER indicator	9-22
CPU-181	CPU (MAIN), CPU (EXT)	9-24
CPU-188	Option CPU board	9-28
HP-65	Headphone Amp	9-30
MT-105	Level Meter	9-30
PS-363	AC line input/Line Filter	9-32
PS-364	Switching Regulator	9-32
AC-190	Power Line Filter	9-32
SW-710	MIC LIMIT/DIRECT ACCESS/SEAT ASSIGN switch	9-34
SW-722	MONITOR Channel Selector	9-34
SW-723	TELEPHONE COUPLER selection	9-34
CN-1478	External Unit Signal Input/Output	9-34
TR-107	Matching Transformer board	9-34
VR-237	Volume Control	9-34
FRAME	SX-M700/SXA-120	9-36
FRAME	SX-M100/SXA-120	9-37
FRAME	SX-E120	9-38

CN112	G-3
CN113	B-2
CN114	A-2
CN115	H-3
CN116	E-3
CN961	D-3
D1	F-2
D2	F-2
D3	H-2
D4	H-2
IC101	G-3
IC102	F-3
IC103	J-3
IC104	J-2
IC105	C-2
IC106	D-2
TP101	G-1
TP102	J-1
TP103	H-2
TP104	B-2
TP105	B-2
TP910	E-2
TP911	E-2



For SX-M700

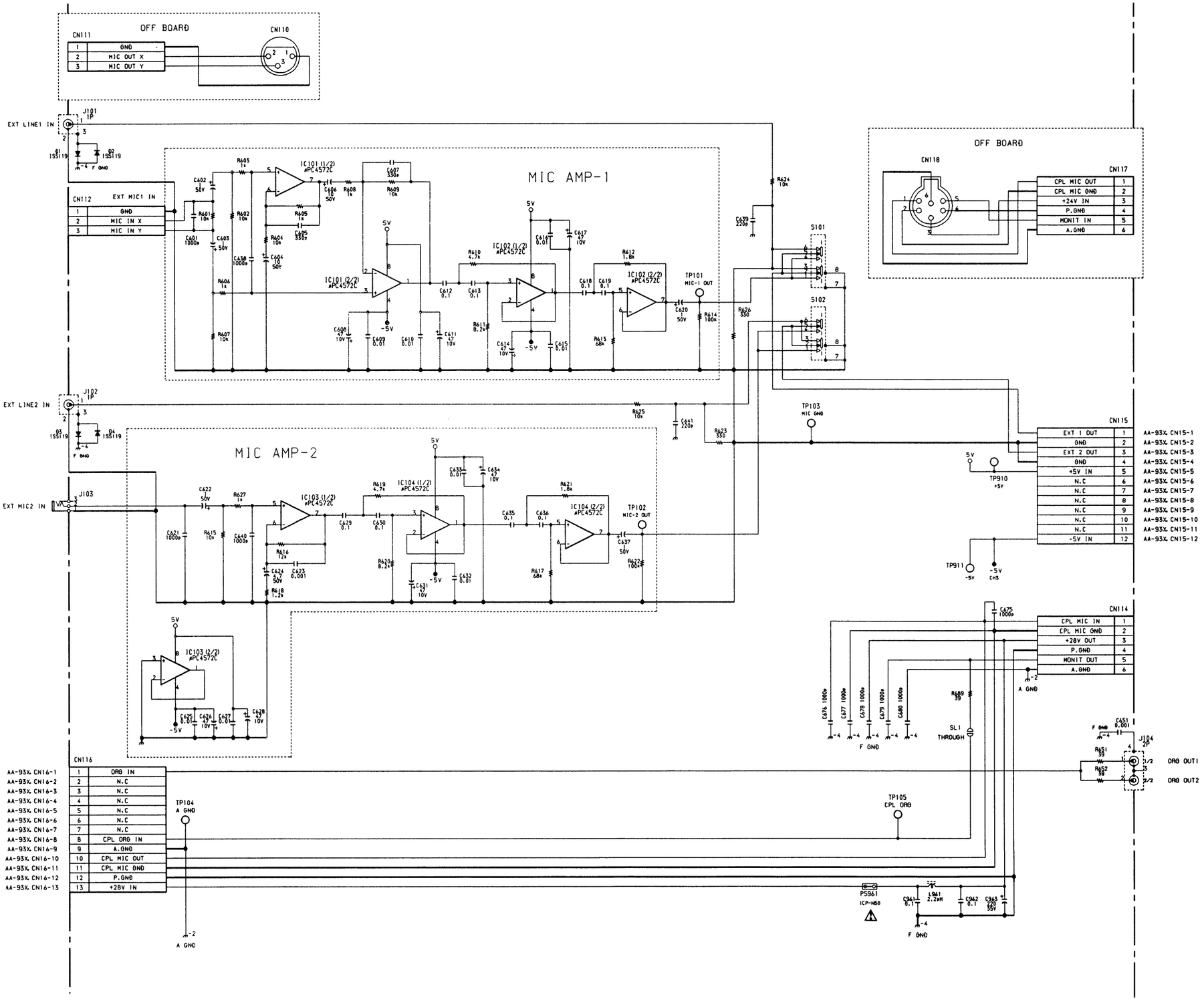
AA-79 : AUDIO INTERFACE
(MIC, LINE, TELEPHONE COUPLER)



AA-79

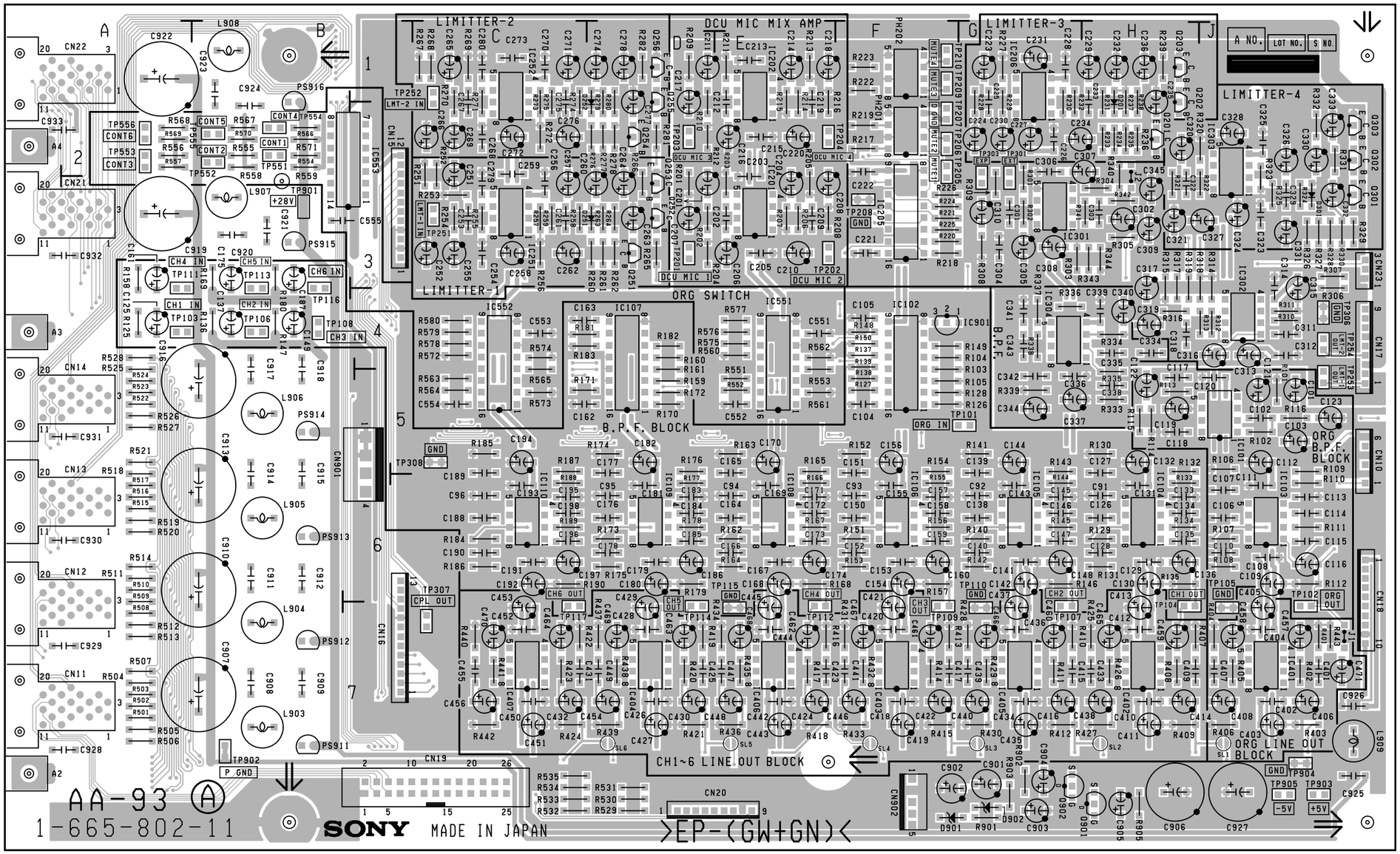
For SX-M100

AA-79X : AUDIO INTERFACE (MIC, LINE, TELEPHONE COUPLER)



AA-79X

CN10	J-5	Q201	H-2
CN11	A-7	Q202	H-2
CN12	A-7	Q203	H-1
CN13	A-6	Q251	D-3
CN14	A-5	Q252	D-3
CN15	B-3	Q253	D-3
CN16	B-7	Q254	D-2
CN17	J-4	Q255	D-2
CN18	J-6	Q256	D-1
CN19	C-7	Q301	J-3
CN20	E-7	Q302	J-2
CN21	A-3	Q303	J-2
CN22	A-1	Q901	H-7
CN23	J-3	Q902	G-7
CN901	B-5		
CN902	F-7	TP101	G-5
CN911	B-7	TP102	J-7
CN912	B-7	TP103	A-4
CN913	B-6	TP104	H-7
CN914	B-5	TP105	J-7
CN915	B-3	TP106	B-4
CN916	B-1	TP107	G-7
		TP108	B-4
D201	H-2	TP109	F-7
D251	D-3	TP110	G-7
D252	D-2	TP111	A-3
D301	J-3	TP112	E-7
D901	F-7	TP113	B-3
D902	G-7	TP114	D-7
		TP115	E-7
IC101	J-5	TP116	B-3
IC102	F-4	TP117	C-7
IC103	J-6	TP201	D-3
IC104	H-6	TP202	E-3
IC105	G-6	TP203	D-2
IC106	F-6	TP204	E-2
IC107	D-4	TP205	F-3
IC108	E-6	TP206	F-2
IC109	D-6	TP207	F-2
IC110	C-6	TP208	F-3
IC201	E-3	TP209	F-1
IC202	E-1	TP210	F-1
IC205	F-3	TP251	C-3
IC206	G-1	TP252	C-1
IC251	C-3	TP253	J-5
IC252	C-1	TP254	J-4
IC301	G-3	TP301	G-3
IC302	J-4	TP303	G-3
IC303	J-3	TP306	J-4
IC304	G-4	TP307	C-7
IC401	J-7	TP308	C-5
IC402	H-7	TP551	B-2
IC403	F-7	TP552	B-2
IC404	D-7	TP553	A-2
IC405	G-7	TP554	B-2
IC406	E-7	TP555	B-2
IC407	C-7	TP556	A-2
IC551	E-4	TP901	B-3
IC552	C-4	TP902	B-7
IC553	B-2	TP903	J-7
IC901	F-4	TP904	J-7
		TP905	J-7
PH201	F-2		
PH202	F-1		
PS911	B-7		
PS912	B-7		
PS913	B-6		
PS914	B-5		
PS915	B-3		
PS916	B-1		



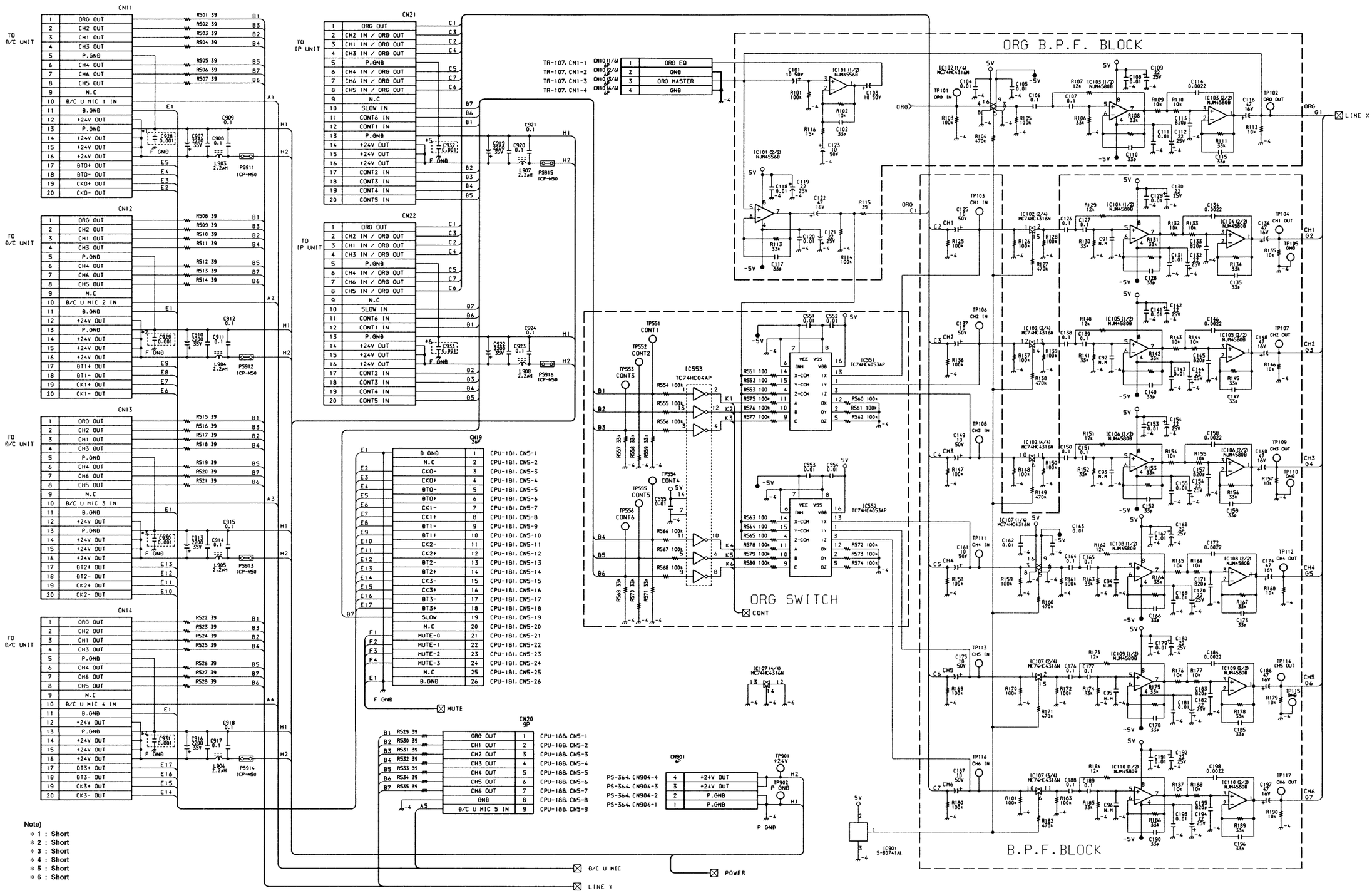
AA-93/93X -A SIDE-

1-665-802-11

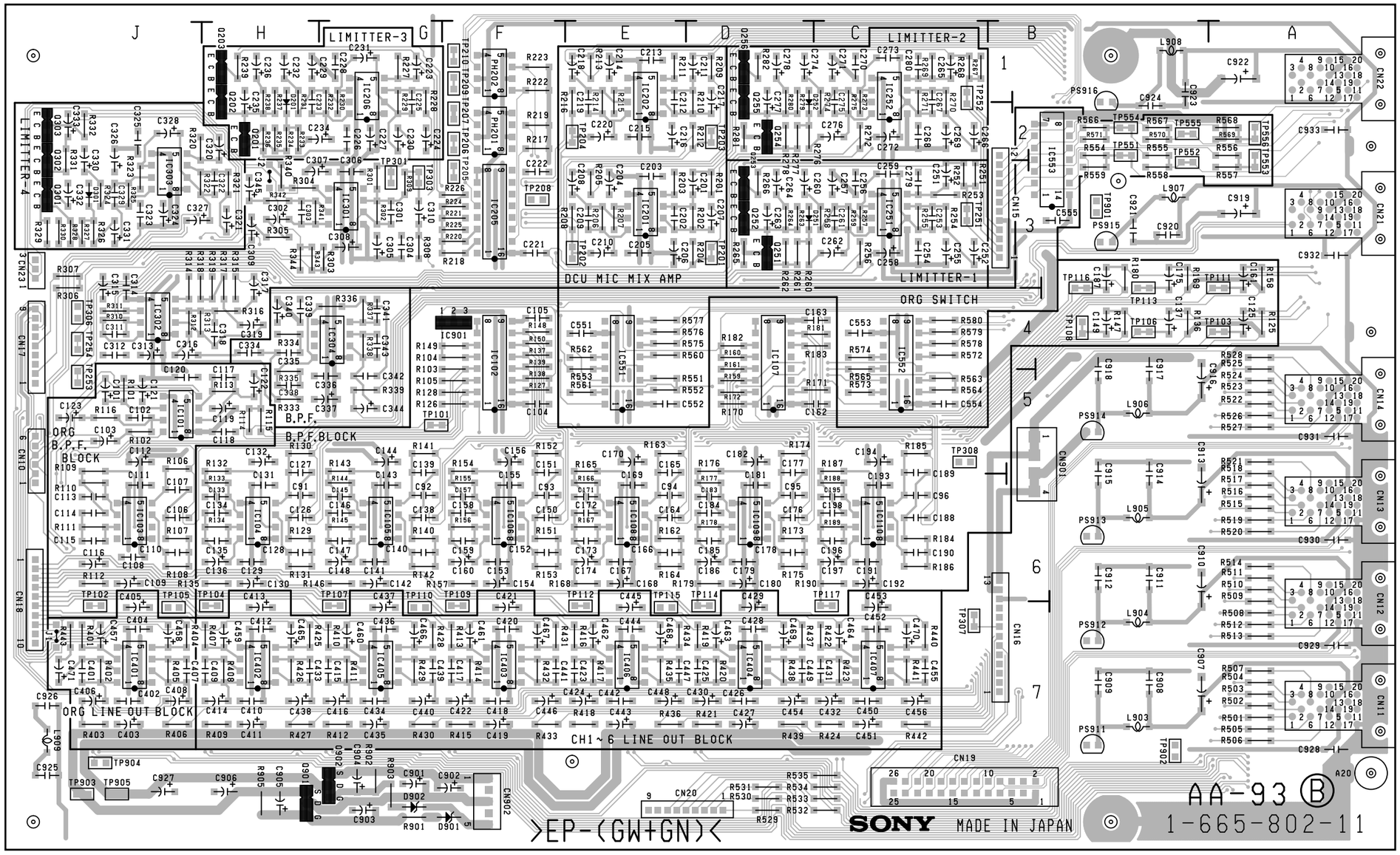
For SX-M700

AA-93 (1/3) : AUDIO INTERFACE (CHAIRMAN'S & DELEGATE'S & INTERPRETER'S UNITS)

Changed MASTER VR position & Audio Analog Limiter Level



CN10	J-5	Q201	H-2
CN11	A-7	Q202	H-2
CN12	A-7	Q203	H-1
CN13	A-6	Q251	D-3
CN14	A-5	Q252	D-3
CN15	B-3	Q253	D-3
CN16	B-7	Q254	D-2
CN17	J-4	Q255	D-2
CN18	J-6	Q256	D-1
CN19	C-7	Q301	J-3
CN20	E-7	Q302	J-2
CN21	A-3	Q303	J-2
CN22	A-1	Q901	H-7
CN23	J-3	Q902	G-7
CN901	B-5		
CN902	F-7	TP101	G-5
CN911	B-7	TP102	J-7
CN912	B-7	TP103	A-4
CN913	B-6	TP104	H-7
CN914	B-5	TP105	J-7
CN915	B-3	TP106	B-4
CN916	B-1	TP107	G-7
		TP108	B-4
D201	H-2	TP109	F-7
D251	D-3	TP110	G-7
D252	D-2	TP111	A-3
D301	J-3	TP112	E-7
D901	F-7	TP113	B-3
D902	G-7	TP114	D-7
		TP115	E-7
IC101	J-5	TP116	B-3
IC102	F-4	TP117	C-7
IC103	J-6	TP201	D-3
IC104	H-6	TP202	E-3
IC105	G-6	TP203	D-2
IC106	F-6	TP204	E-2
IC107	D-4	TP205	F-3
IC108	E-6	TP206	F-2
IC109	D-6	TP207	F-2
IC110	C-6	TP208	F-3
IC201	E-3	TP209	F-1
IC202	E-1	TP210	F-1
IC205	F-3	TP251	C-3
IC206	G-1	TP252	C-1
IC251	C-3	TP253	J-5
IC252	C-1	TP254	J-4
IC301	G-3	TP301	G-3
IC302	J-4	TP303	G-3
IC303	J-3	TP306	J-4
IC304	G-4	TP307	C-7
IC401	J-7	TP308	C-5
IC402	H-7	TP551	B-2
IC403	F-7	TP552	B-2
IC404	D-7	TP553	A-2
IC405	G-7	TP554	B-2
IC406	E-7	TP555	B-2
IC407	C-7	TP556	A-2
IC551	E-4	TP901	B-3
IC552	C-4	TP902	B-7
IC553	B-2	TP903	J-7
IC901	F-4	TP904	J-7
		TP905	J-7
PH201	F-2		
PH202	F-1		
PS911	B-7		
PS912	B-7		
PS913	B-6		
PS914	B-5		
PS915	B-3		
PS916	B-1		



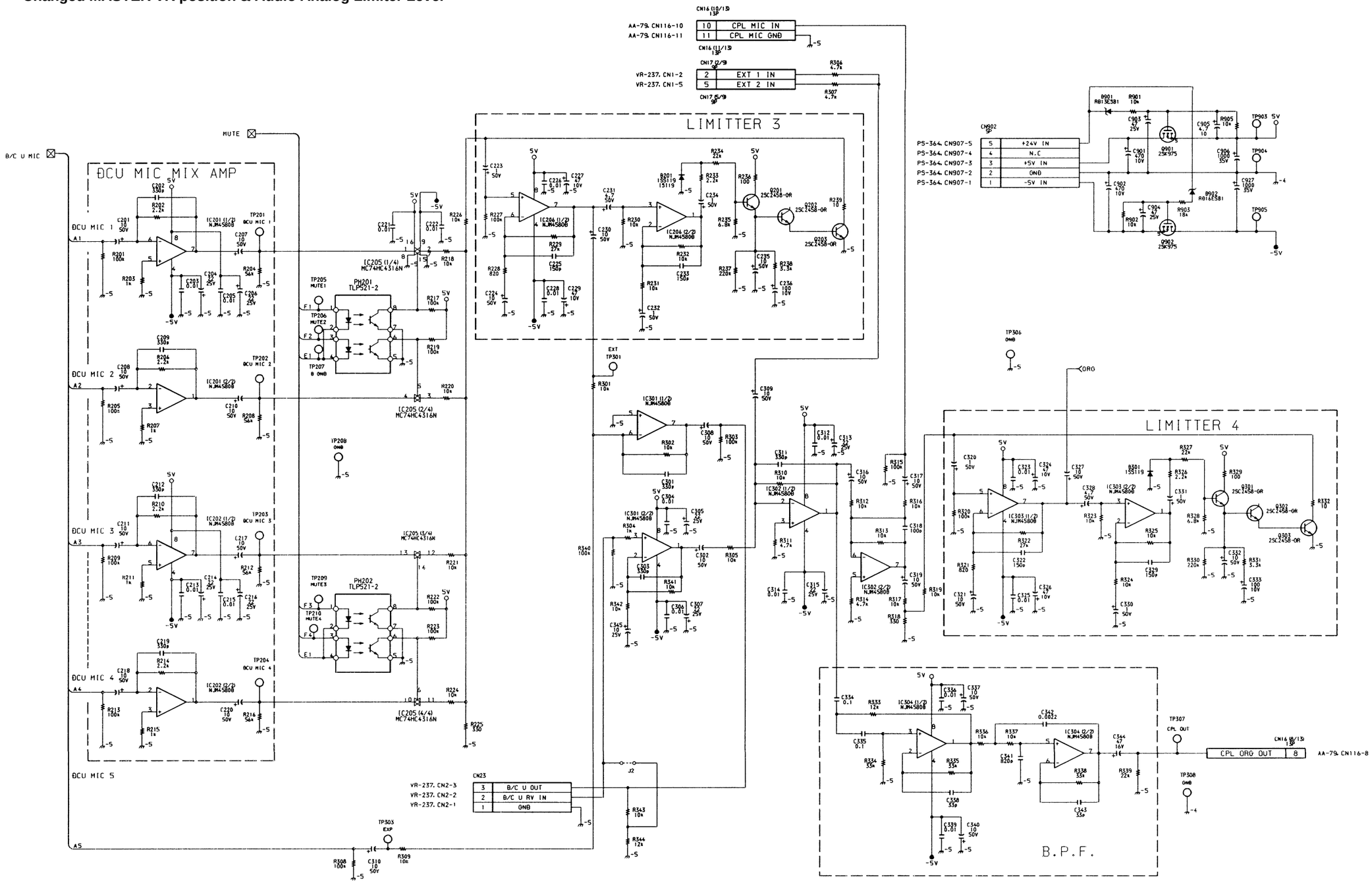
AA-93/93X -B SIDE-
1-665-802-11

http://getMANUAL.com

For SX-M700

AA-93 (2/3) : AUDIO INTERFACE (CHAIRMAN'S & DELEGATE'S & INTERPRETER'S UNITS)

Changed MASTER VR position & Audio Analog Limiter Level

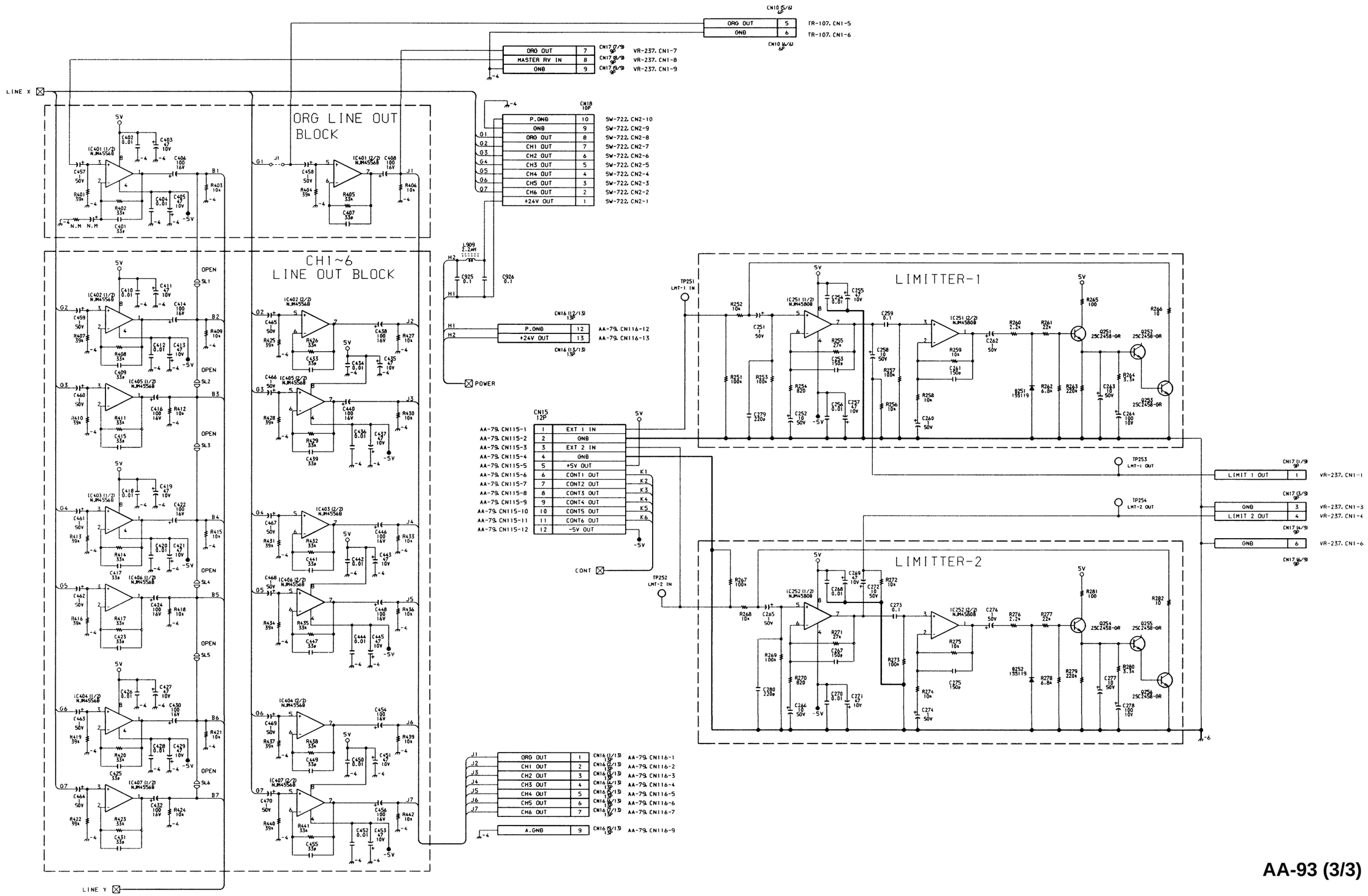


AA-93 (2/3)

For SX-M700

AA-93 (3/3) : AUDIO INTERFACE (CHAIRMAN'S & DELEGATE'S & INTERPRETER'S UNITS)

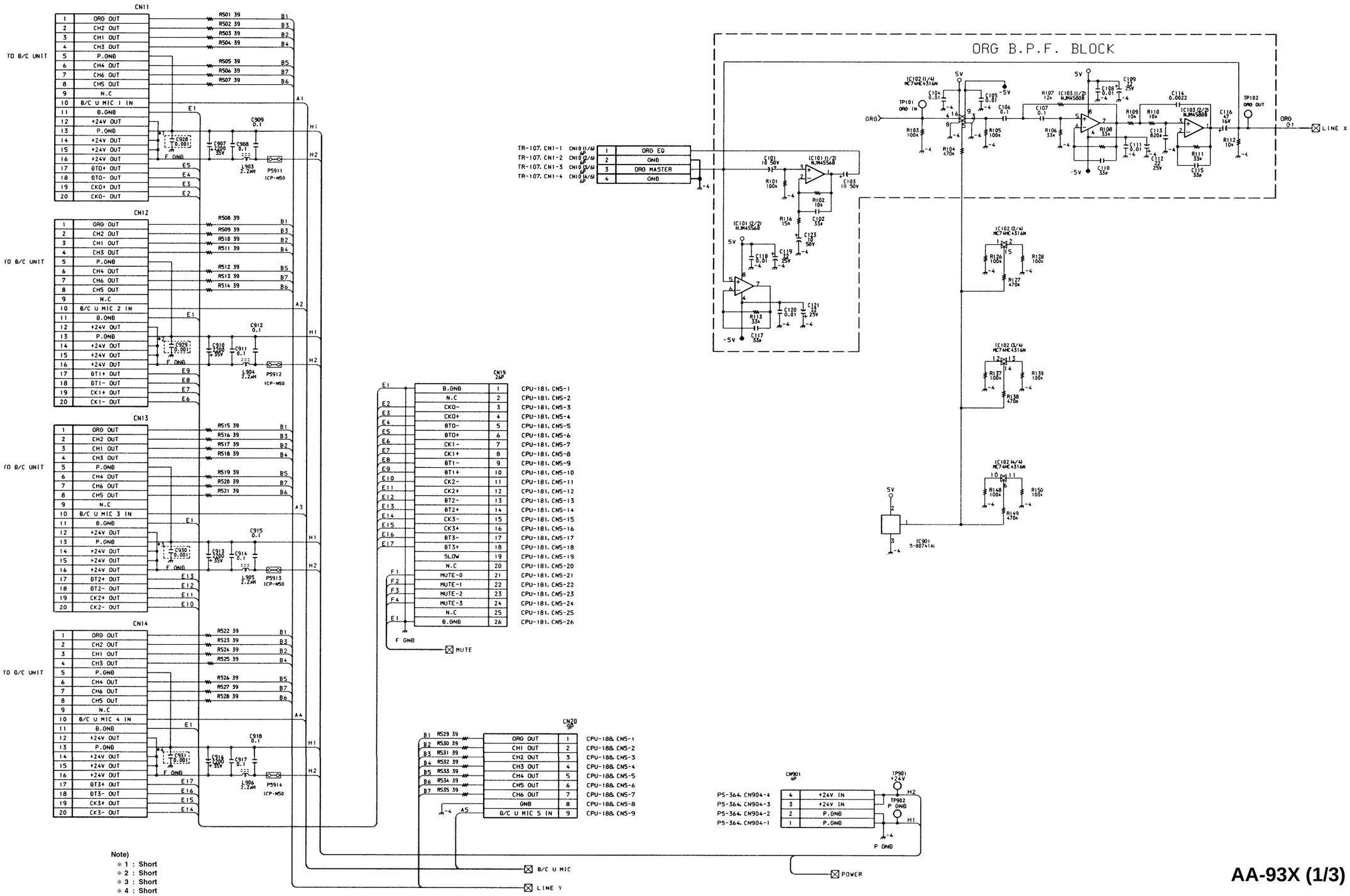
Changed MASTER VR position & Audio Analog Limiter Level



For SX-M100

AA-93X (1/3) : AUDIO INTERFACE (CHAIRMAN'S & DELEGATE'S & INTERPRETER'S UNITS)

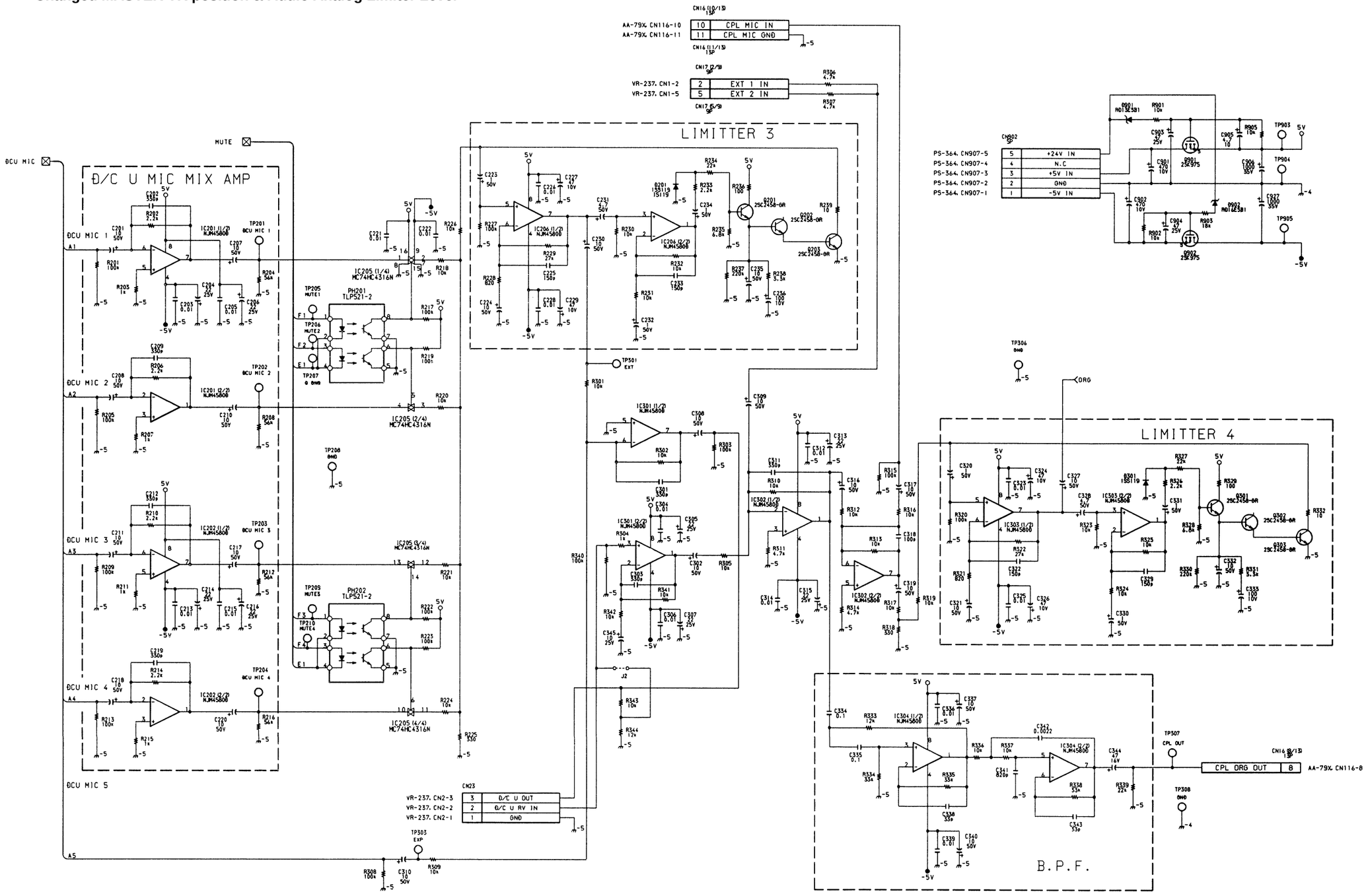
Changed MASTER VR position & Audio Analog Limiter Level



For SX-M100

AA-93X (2/3) : AUDIO INTERFACE (CHAIRMAN'S & DELEGATE'S & INTERPRETER'S UNITS)

Changed MASTER VR position & Audio Analog Limiter Level

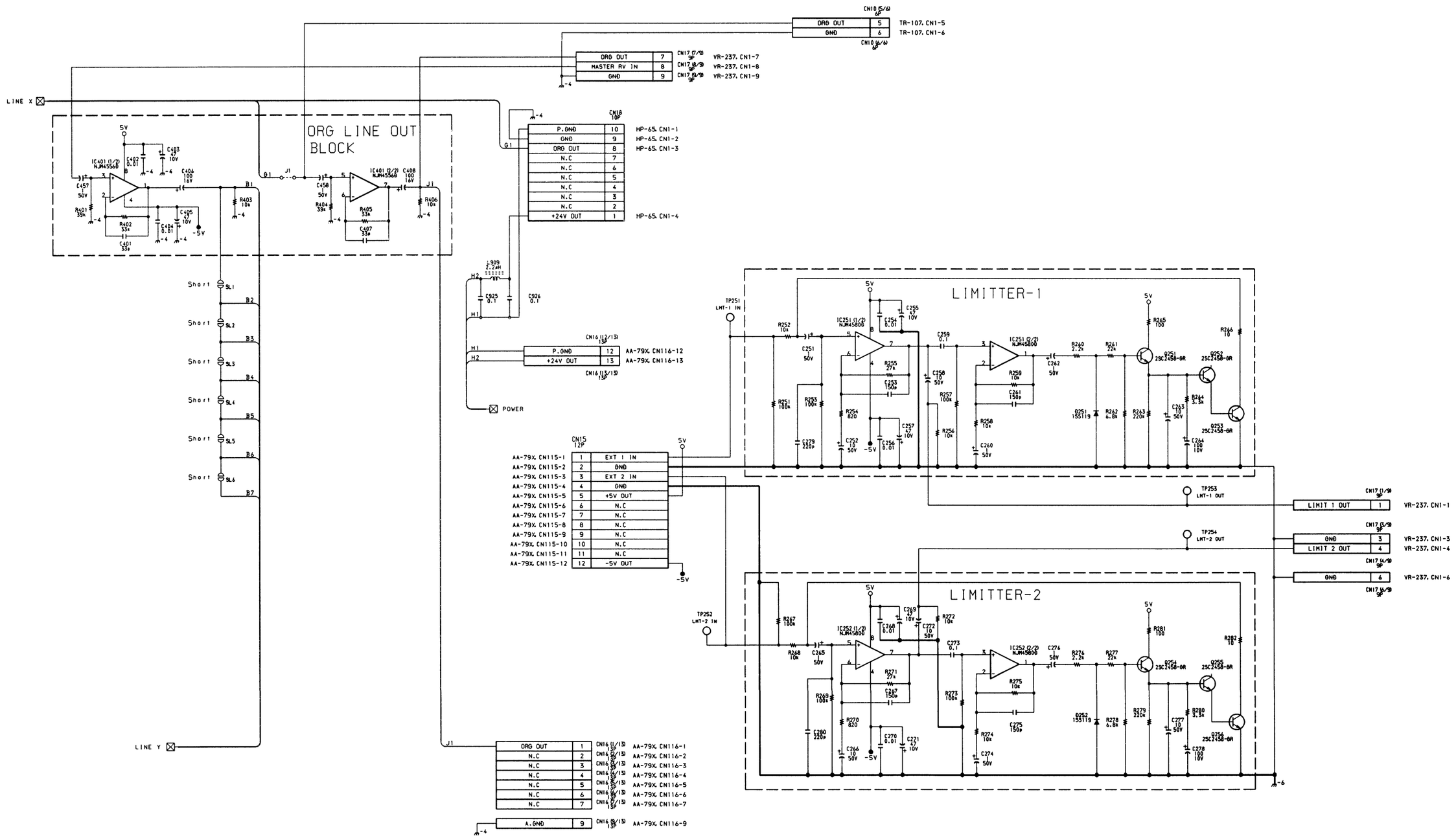


AA-93X (2/3)

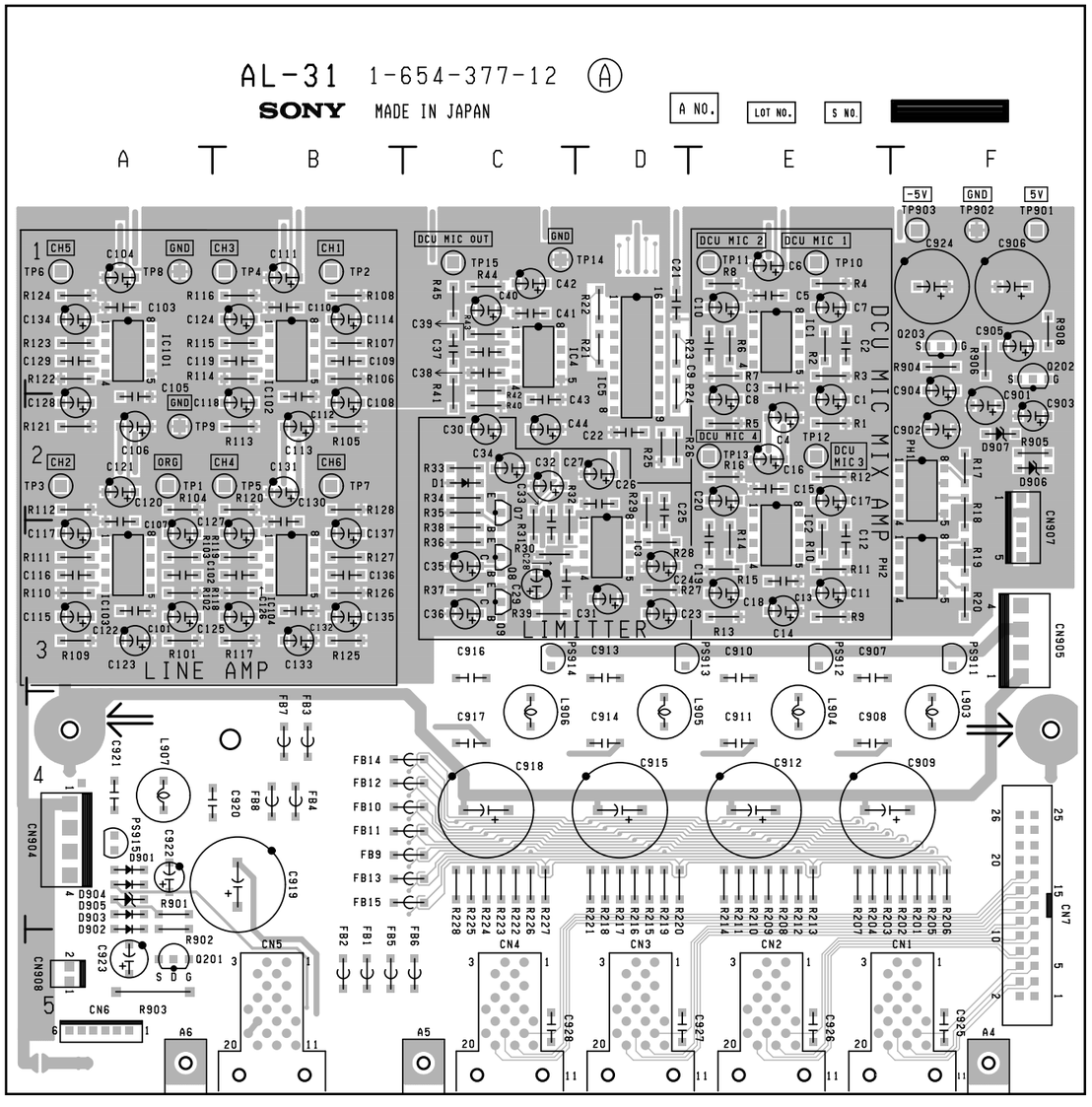
For SX-M100

AA-93X (3/3) : AUDIO INTERFACE (CHAIRMAN'S & DELEGATE'S & INTERPRETER'S UNITS)

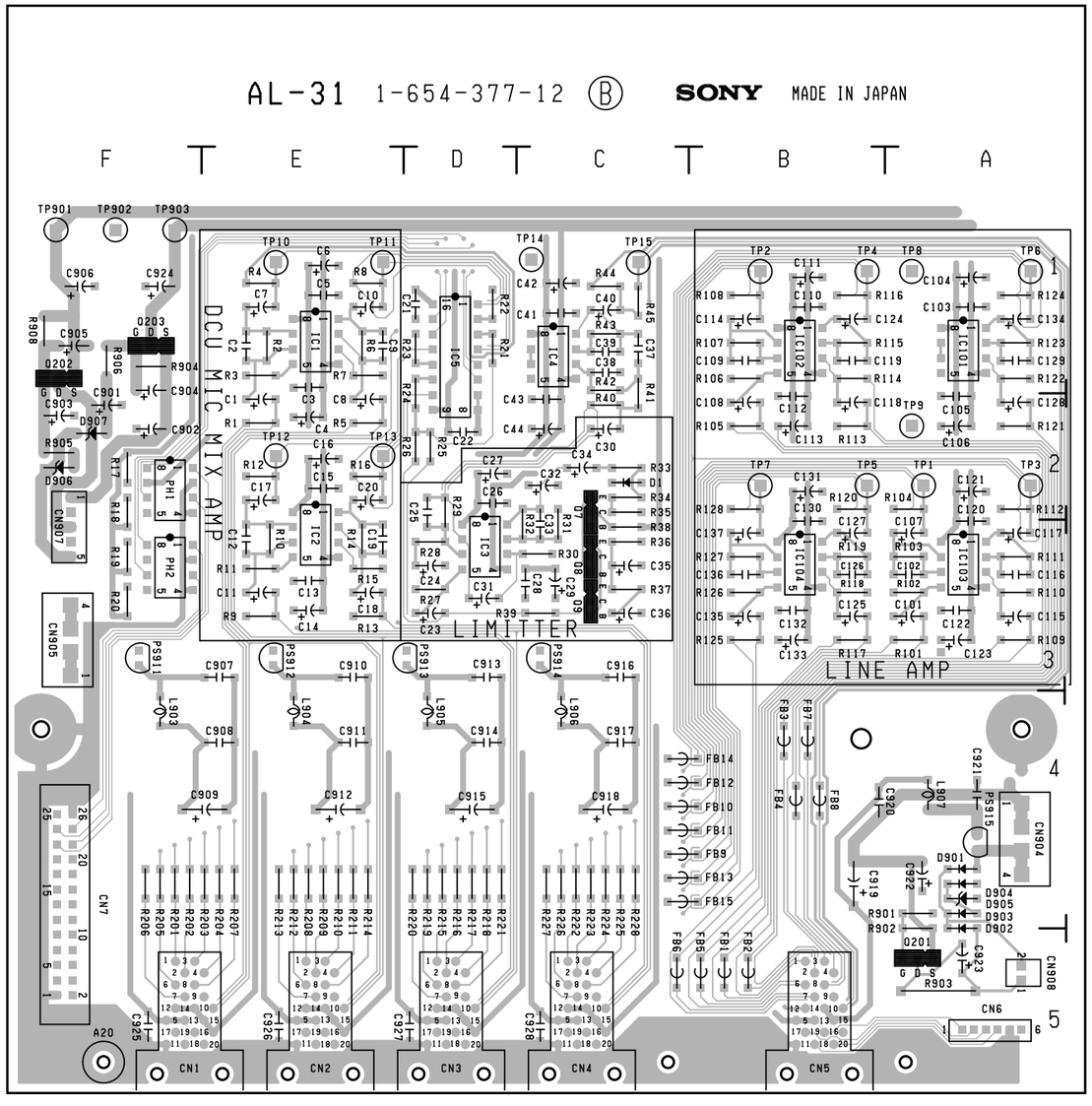
Changed MASTER VR position & Audio Analog Limiter Level



AA-93X (3/3)



AL-31 -A SIDE-
1-654-377-12



AL-31 -B SIDE-
1-654-377-12

CN1	F-5	D902	A-4	PS911	F-3	TP7	B-2
CN2	E-5	D903	A-4	PS912	E-3	TP8	A-1
CN3	D-5	D904	A-4	PS913	D-3	TP9	A-2
CN4	C-5	D905	A-4	PS914	C-3	TP10	E-1
CN5	B-5	D906	F-2	PS915	A-4	TP11	E-1
CN6	A-5	D907	F-2			TP12	E-2
CN7	F-4			Q7	C-2	TP13	E-2
CN904	A-4	IC1	E-1	Q8	C-3	TP14	C-1
CN905	F-3	IC2	E-3	Q9	C-3	TP15	C-1
CN907	F-3	IC3	D-3	Q201	A-5	TP901	F-1
CN908	A-5	IC4	C-1	Q202	F-1	TP902	F-1
CN911	F-3	IC5	D-1	Q203	F-1	TP903	F-1
CN912	E-3	IC101	A-1				
CN913	D-3	IC102	B-1	TP1	A-2		
CN914	C-3	IC103	A-3	TP2	B-1		
CN915	A-4	IC104	B-3	TP3	A-2		
				TP4	B-1		
D1	C-2	PH1	F-2	TP5	B-2		
D901	A-4	PH2	F-3	TP6	A-1		

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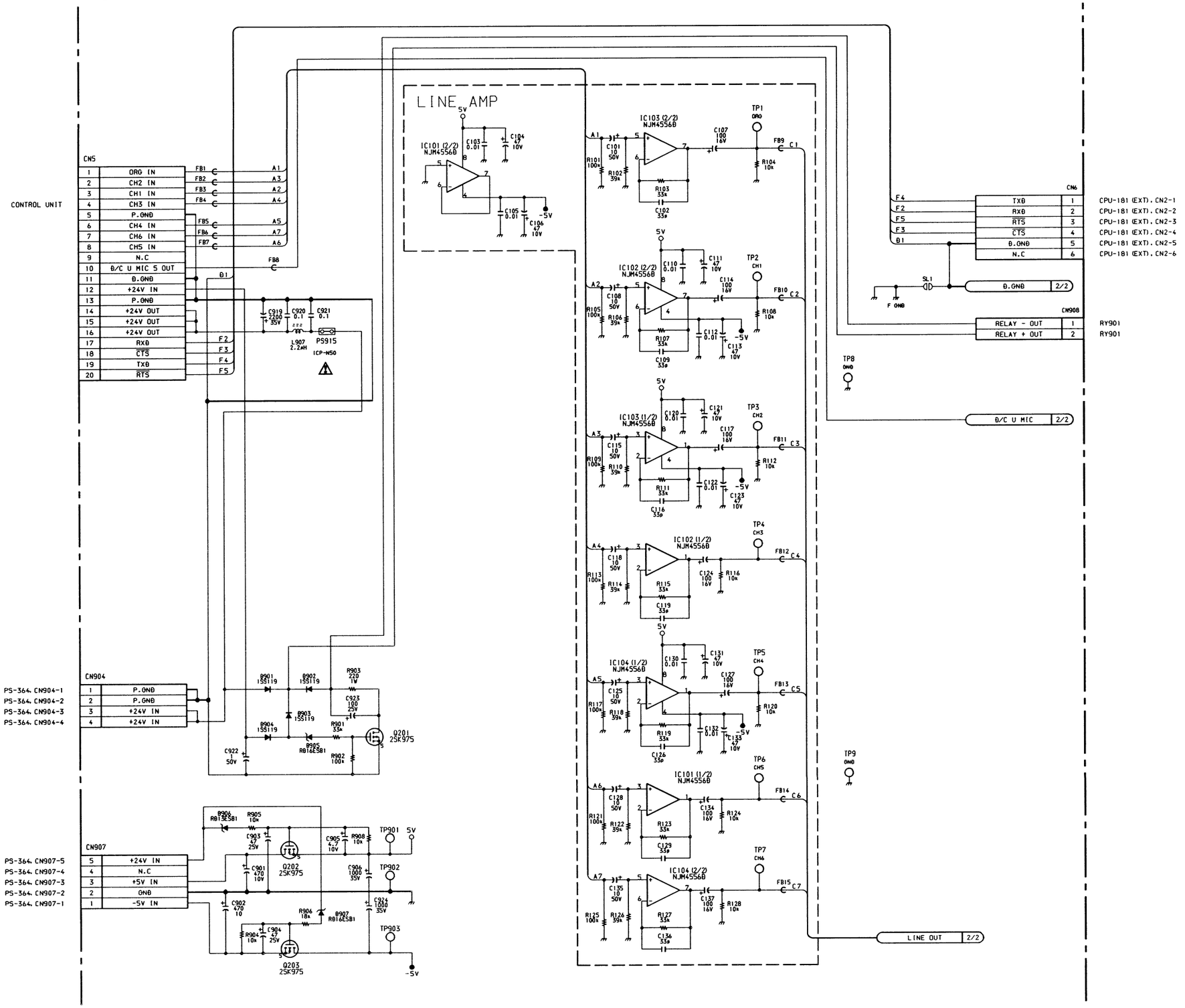
For SX-E120

AL-31 (1/2) : EXPANSION INTERFACE (CHAIRMAN'S & DELEGATE'S UNITS)

Changed Audio Analog Limiter Level

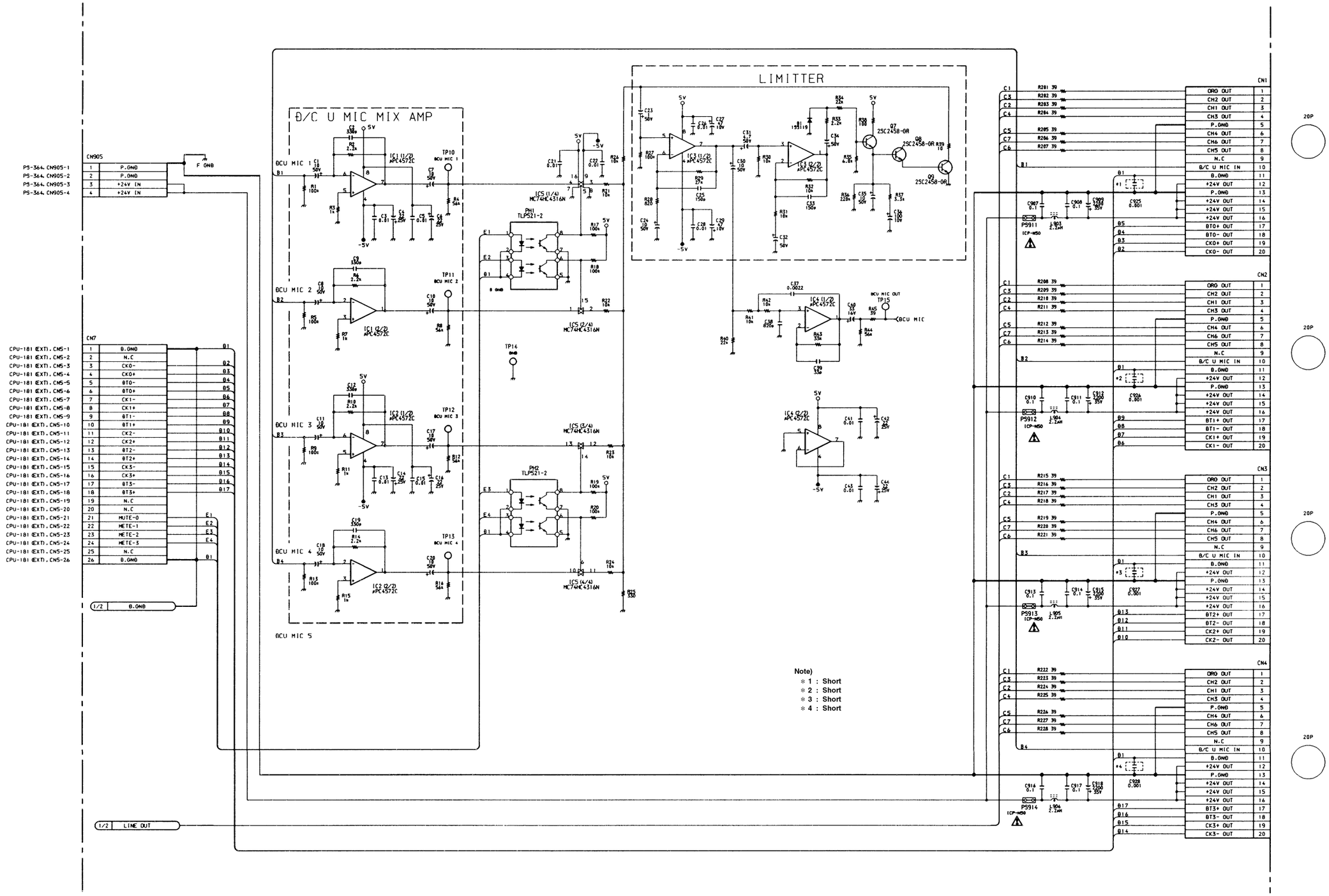


AL-31 (1/2)

For SX-E120

AL-31 (2/2) : EXPANSION INTERFACE (CHAIRMAN'S & DELEGATE'S UNITS)

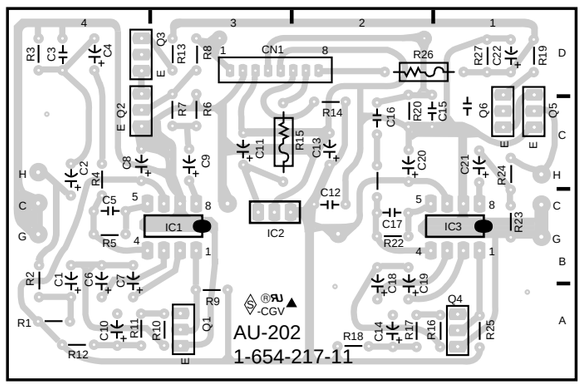
Changed Audio Analog Limiter Level



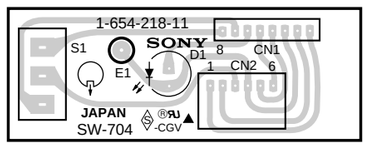
AL-31 (2/2)

IC1 C-3
IC2 A-2
IC3 C-1

Q1 A-3
Q2 C-4
Q3 D-4
Q4 A-1
Q5 C-A
Q6 C-1



AU-202 -B SIDE-
1-654-217-11

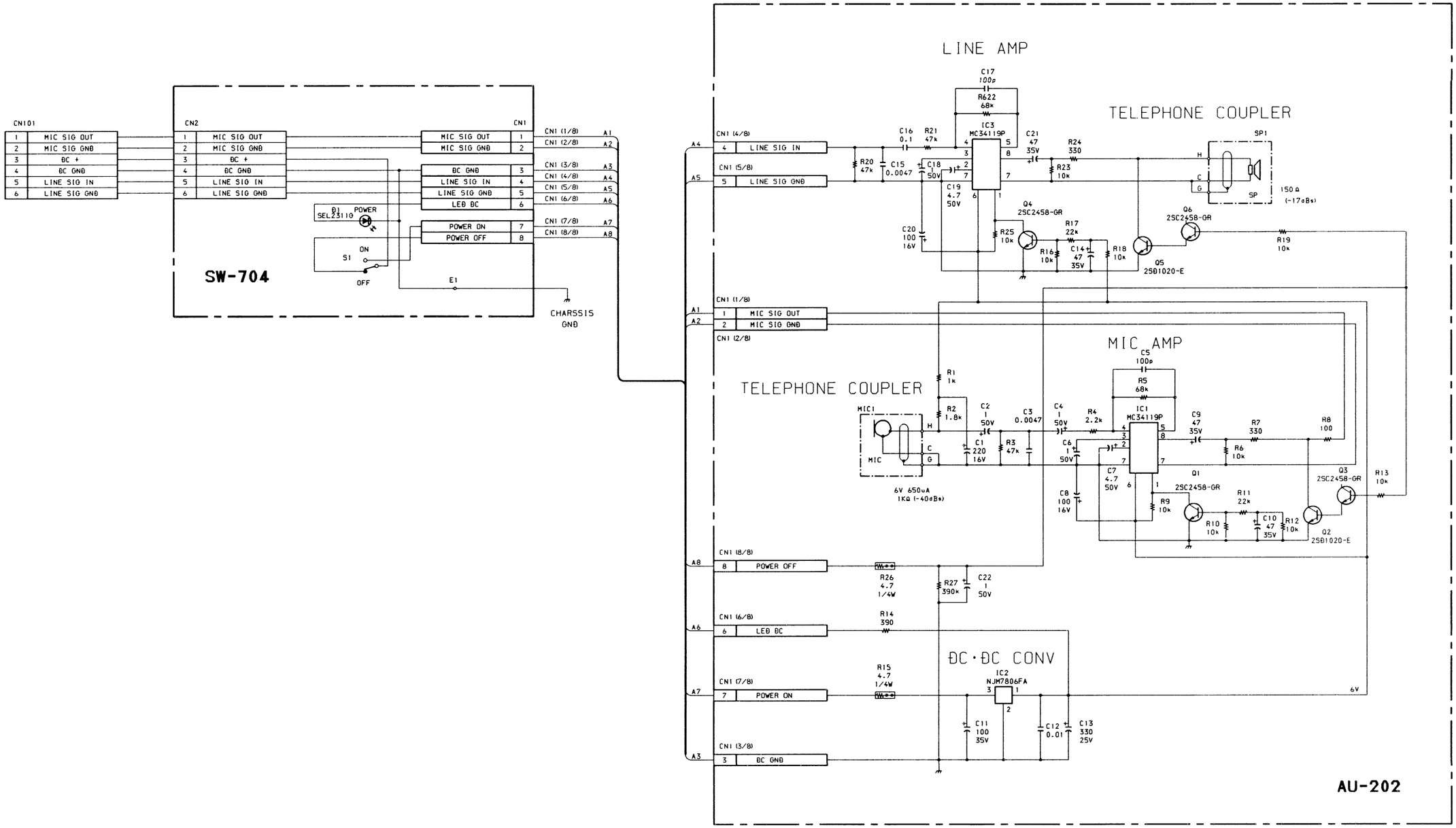


SW-704 -B SIDE-
1-654-218-11

For SX-T100

AU-202 : TELEPHONE COUPLER'S AUDIO BOARD

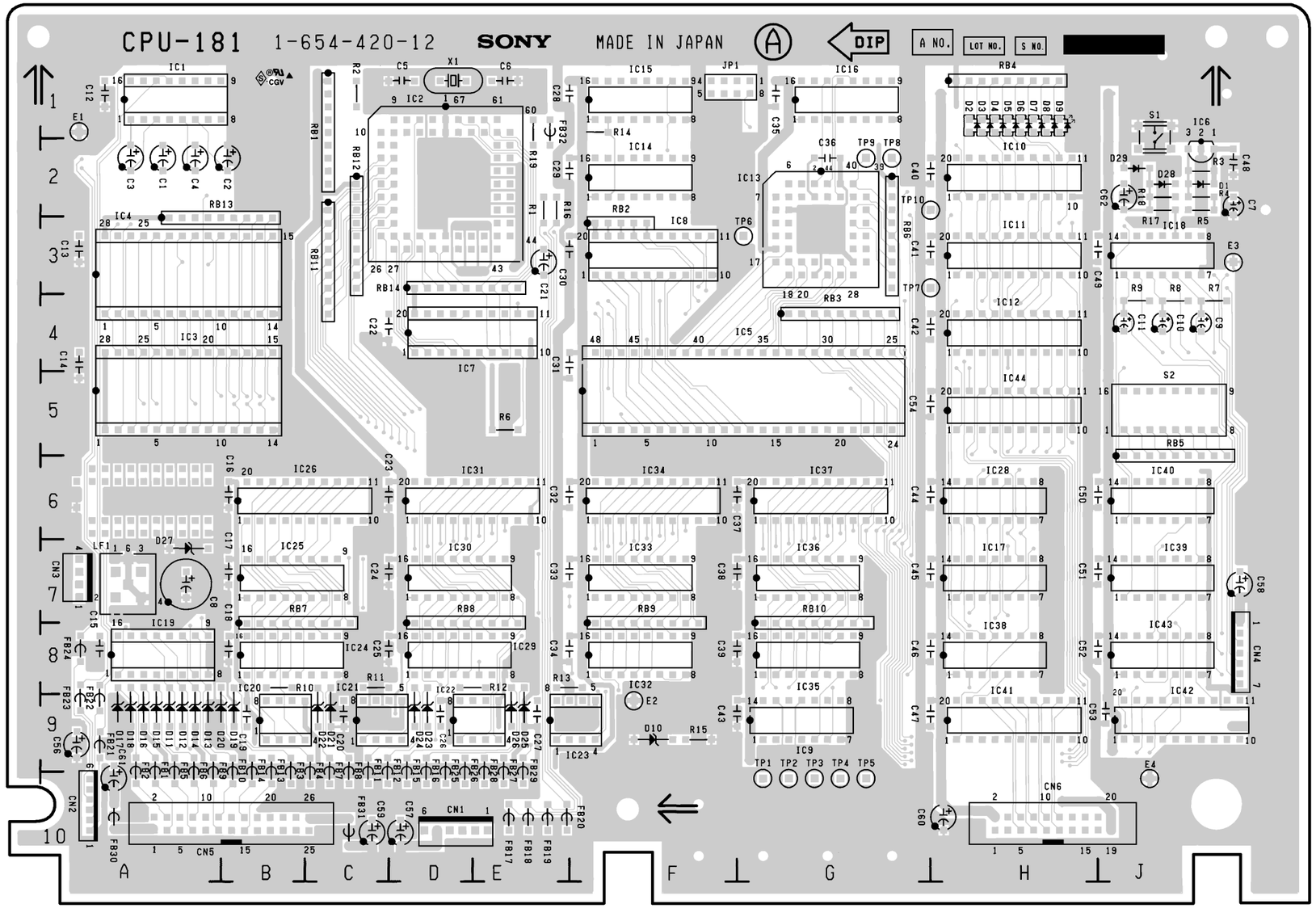
SW-704 : POWER SW & POWER INDICATOR



AU-202

SW-704

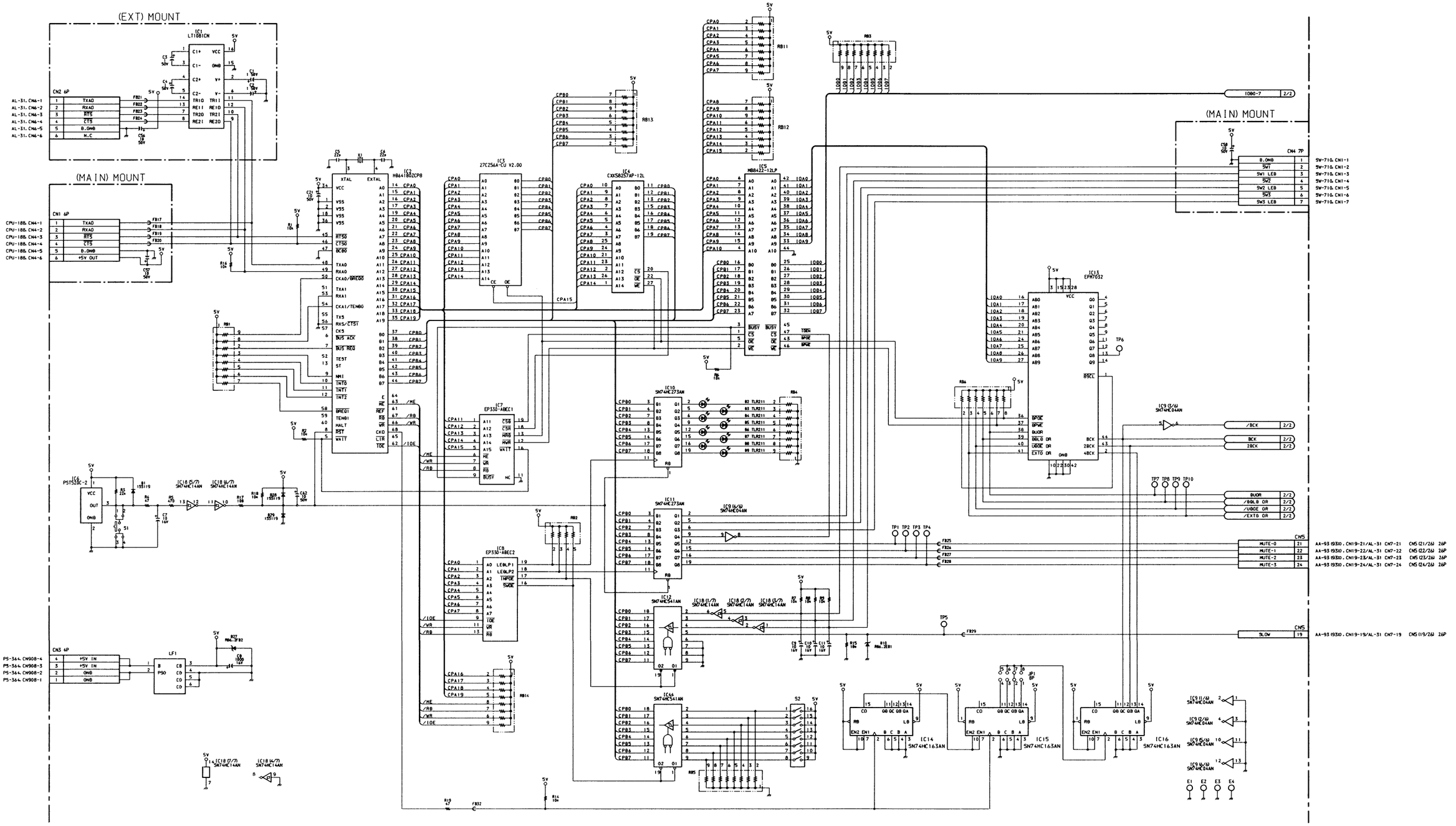
CNI2	D-2	IC21	C-9
CNI3	A-5	IC22	E-9
CNI4	A-3	IC23	F-9
CNI5	G-5	IC24	B-8
CNI7	E-4	IC25	B-7
CNI8	F-3	IC26	C-6
CNI13	G-3	IC28	H-6
CNI19	A-8	IC29	D-8
CNI20	B-9	IC30	D-7
CNI21	C-9	IC31	E-6
CNI22	E-9	IC32	F-8
CNI23	F-9	IC33	F-7
		IC34	F-6
CN1	D-10	IC35	G-8
CN3	A-7	IC36	G-7
CN4	J-8	IC37	G-6
CN5	A-10	IC38	H-8
		IC39	J-7
D1	J-2	IC40	J-6
D2	H-1	IC44	H-5
D3	H-1		
D4	H-1	JP1	F-1
D5	H-1		
D6	H-1	TP1	G-10
D7	H-1	TP2	G-10
D8	H-1	TP3	G-10
D9	H-1	TP4	G-10
D10	F-9	TP5	G-10
D11	A-9	TP6	G-3
D12	A-9	TP7	H-3
D13	A-9	TP8	G-2
D14	A-9	TP9	G-2
D15	A-9	TP10	H-2
D16	A-9		
D17	A-9		
D18	A-9		
D19	B-9		
D20	B-9		
D21	C-9		
D22	C-9		
D23	D-9		
D24	D-9		
D25	E-9		
D26	E-9		
D27	A-7		
D28	J-2		
D29	J-2		
E1	A-1		
E2	F-9		
E3	J-3		
E4	J-10		
IC2	D-2		
IC3	A-5		
IC4	A-3		
IC5	G-5		
IC6	J-2		
IC7	E-4		
IC8	F-3		
IC9	G-9		
IC10	H-2		
IC11	H-3		
IC12	H-4		
IC13	G-3		
IC14	F-2		
IC15	F-1		
IC16	G-1		
IC17	H-7		
IC18	J-3		
IC19	A-8		
IC20	B-9		



CPU-181 -A SIDE-
1-654-420-12

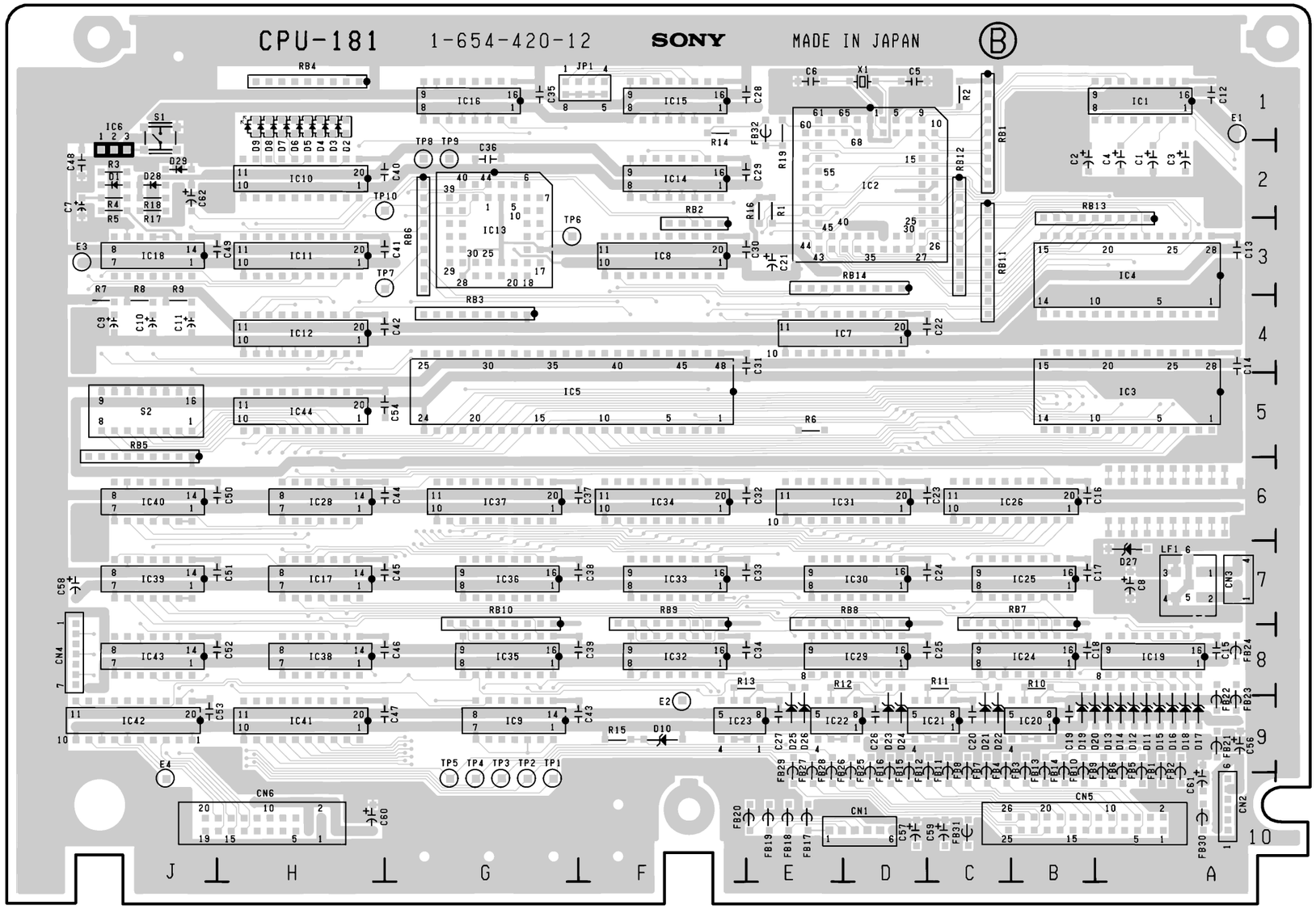
For SX-M700/M100/E120

CPU-181 (1/2) : CPU (MAIN), CPU (EXT)



CPU-181 (1/2)

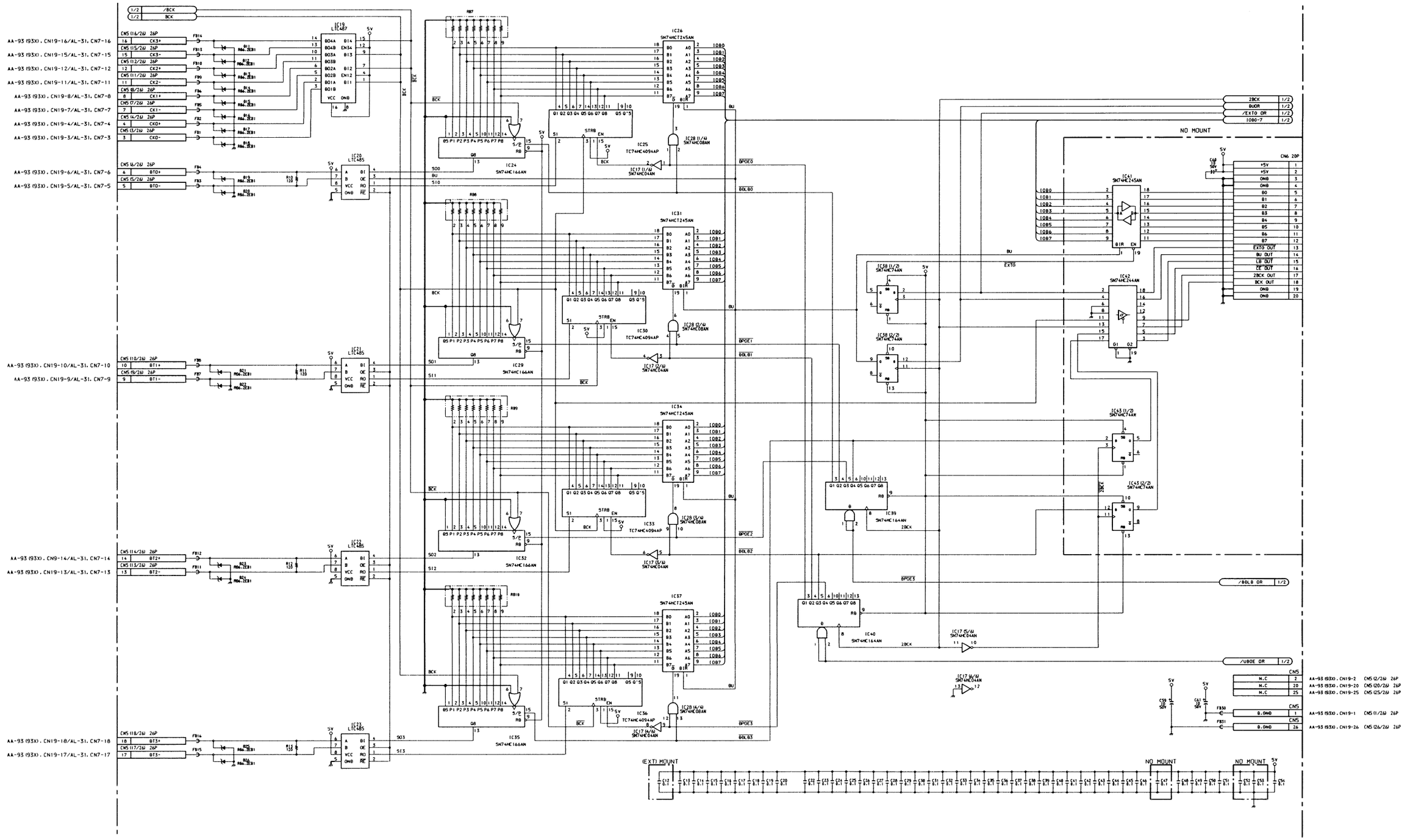
CNI2	D-2	IC21	C-9
CNI3	A-5	IC22	E-9
CNI4	A-3	IC23	F-9
CNI5	G-5	IC24	B-8
CNI7	E-4	IC25	B-7
CNI8	F-3	IC26	C-6
CNI13	G-3	IC28	H-6
CNI19	A-8	IC29	D-8
CNI20	B-9	IC30	D-7
CNI21	C-9	IC31	E-6
CNI22	E-9	IC32	F-8
CNI23	F-9	IC33	F-7
		IC34	F-6
CN1	D-10	IC35	G-8
CN3	A-7	IC36	G-7
CN4	J-8	IC37	G-6
CN5	A-10	IC38	H-8
		IC39	J-7
D1	J-2	IC40	J-6
D2	H-1	IC44	H-5
D3	H-1		
D4	H-1	JP1	F-1
D5	H-1		
D6	H-1	TP1	G-10
D7	H-1	TP2	G-10
D8	H-1	TP3	G-10
D9	H-1	TP4	G-10
D10	F-9	TP5	G-10
D11	A-9	TP6	G-3
D12	A-9	TP7	H-3
D13	A-9	TP8	G-2
D14	A-9	TP9	G-2
D15	A-9	TP10	H-2
D16	A-9		
D17	A-9		
D18	A-9		
D19	B-9		
D20	B-9		
D21	C-9		
D22	C-9		
D23	D-9		
D24	D-9		
D25	E-9		
D26	E-9		
D27	A-7		
D28	J-2		
D29	J-2		
E1	A-1		
E2	F-9		
E3	J-3		
E4	J-10		
IC2	D-2		
IC3	A-5		
IC4	A-3		
IC5	G-5		
IC6	J-2		
IC7	E-4		
IC8	F-3		
IC9	G-9		
IC10	H-2		
IC11	H-3		
IC12	H-4		
IC13	G-3		
IC14	F-2		
IC15	F-1		
IC16	G-1		
IC17	H-7		
IC18	J-3		
IC19	A-8		
IC20	B-9		



CPU-181 -B SIDE-
1-654-420-12

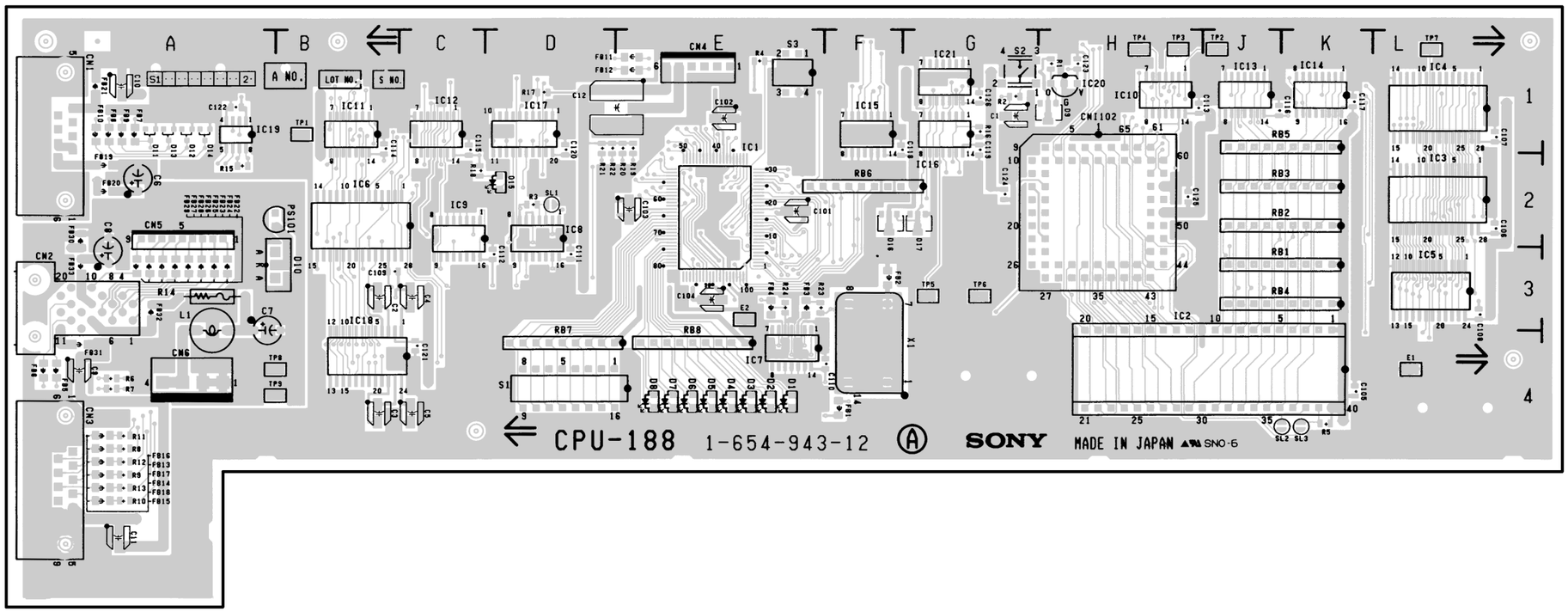
For SX-M700/M100/E120

CPU-181 (2/2) : CPU (MAIN), CPU (EXT)

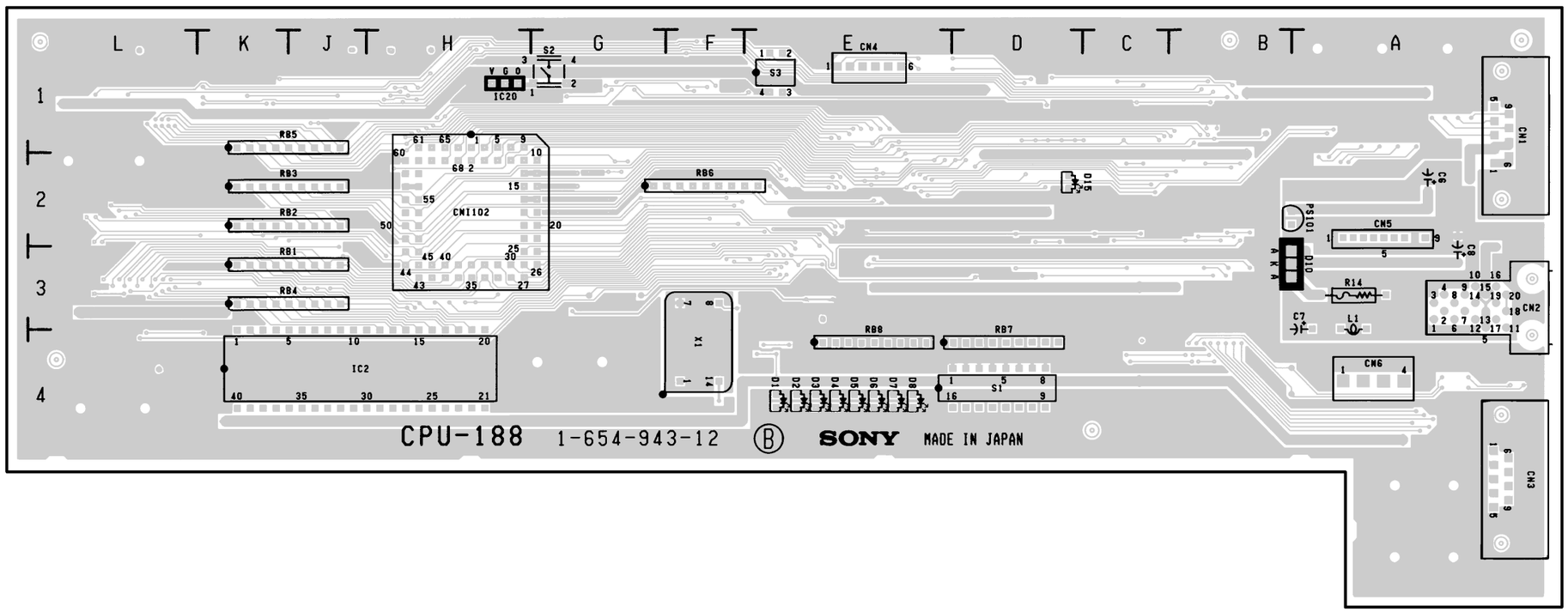


CPU-181 (2/2)

CNI2	H-2
CNI101	B-2
CNI102	H-2
CN1	A-1
CN2	A-3
CN3	A-4
CN4	E-1
CN5	A-2
CN6	A-4
D1	E-4
D2	E-4
D3	E-4
D4	E-4
D5	E-4
D6	E-4
D7	E-4
D8	E-4
D9	H-1
D10	A-3
D11	A-1
D12	A-1
D13	A-1
D14	A-1
D15	D-2
D16	F-2
D17	G-2
E1	L-4
E2	E-3
IC1	E-2
IC2	H-3
IC3	L-2
IC4	L-1
IC5	L-3
IC6	B-2
IC7	E-4
IC8	D-2
IC9	C-2
IC10	H-1
IC11	B-1
IC12	C-1
IC13	J-1
IC14	K-1
IC15	F-1
IC16	G-1
IC17	D-1
IC18	B-4
IC19	A-1
IC20	H-1
IC21	G-1
TP1	B-1
TP2	J-1
TP3	H-1
TP4	H-1
TP5	G-3
TP6	G-3
TP7	L-1
TP8	A-4
TP9	A-4



CPU-188 -A SIDE-
1-654-943-12



CPU-188 -B SIDE-
1-654-943-12

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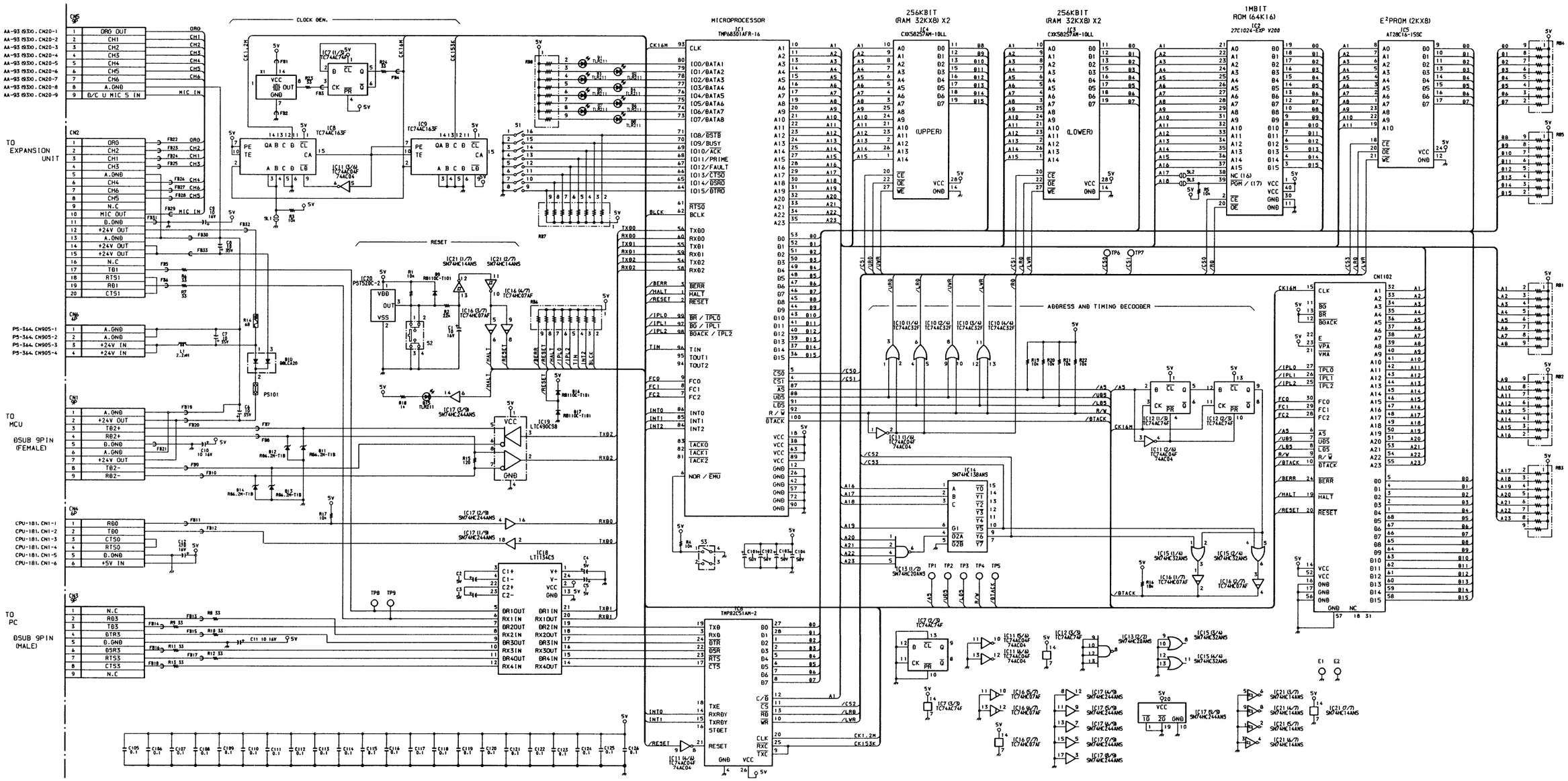
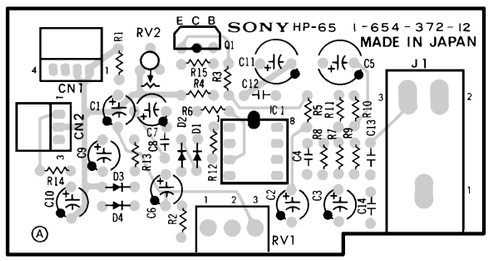
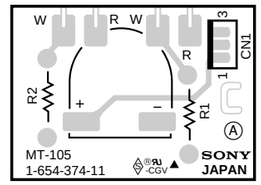
For SXA-120

CPU-188 : OPTION CPU BOARD

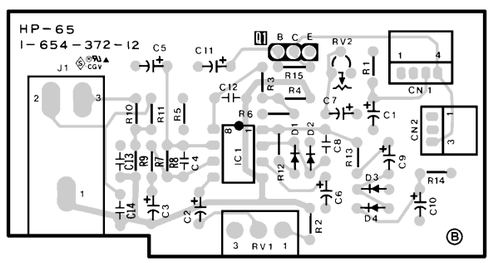




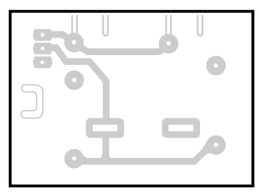
HP-65 **-A SIDE-**
1-654-372-12



MT-105 **-A SIDE-**
1-654-374-11



HP-65 **-B SIDE-**
1-654-372-12

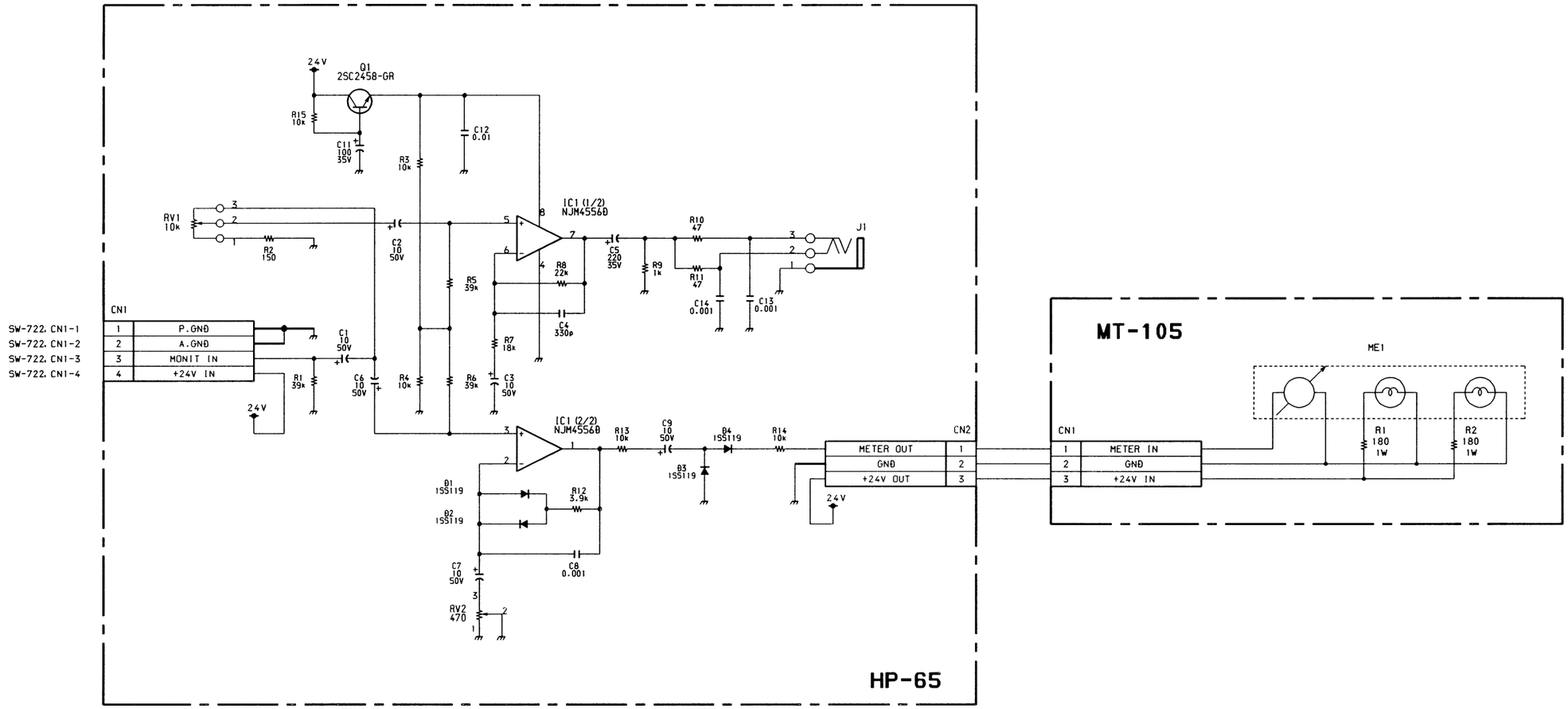


MT-105 **-B SIDE-**
1-654-374-11

For SX-M700/M100

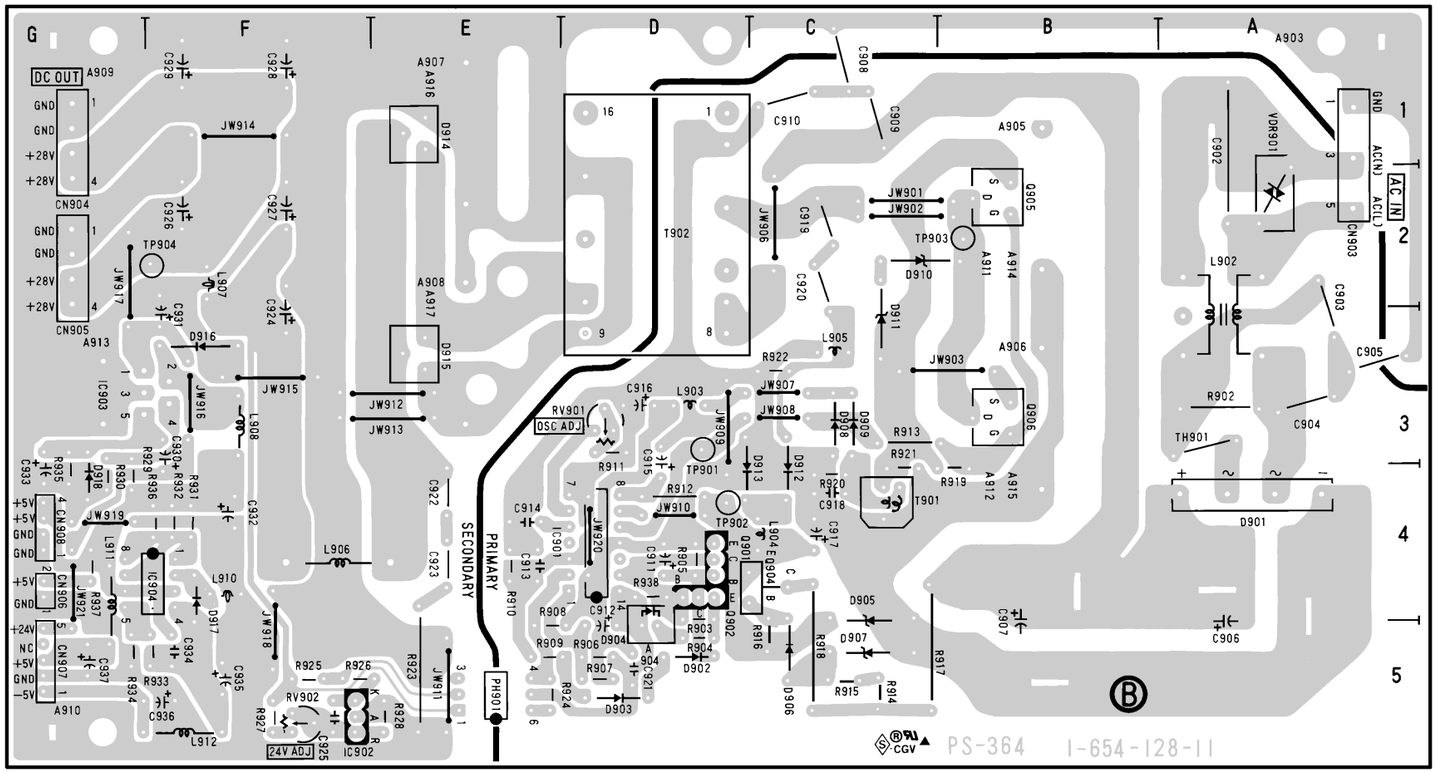
HP-65 : HEADPHEONE AMP

MT-105 : LEVEL METER

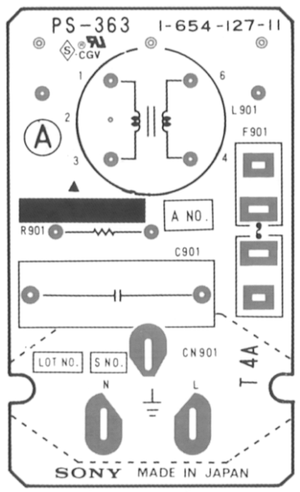


HP-65

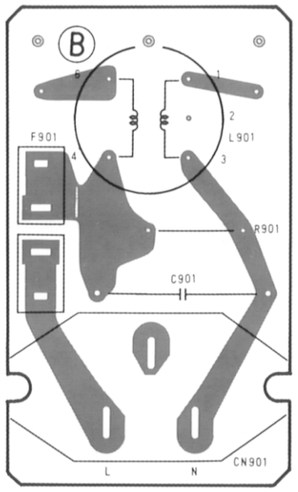
MT-105



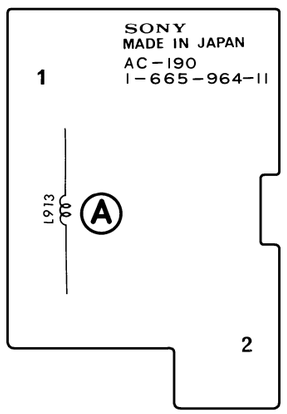
PS-364 -B SIDE-
1-654-128-11



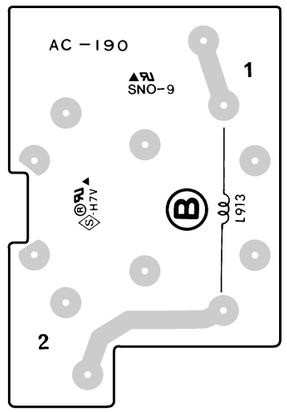
PS-363 -A SIDE-
1-654-127-11



PS-363 -B SIDE-
1-654-127-11



AC-190 -A SIDE-
1-665-964-11



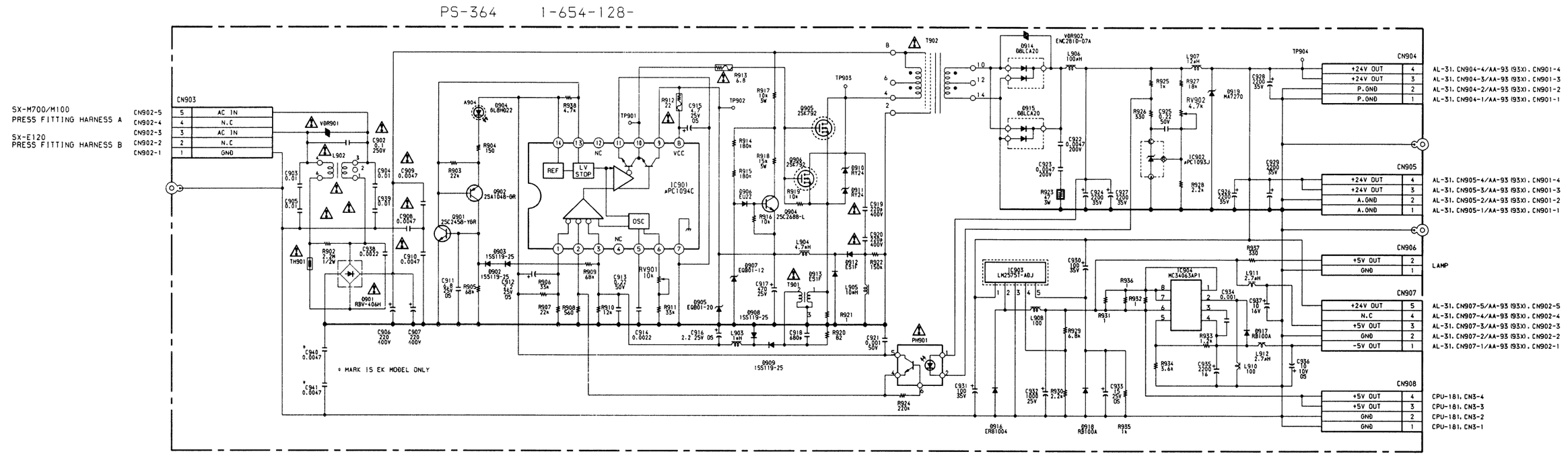
AC-190 -B SIDE-
1-665-964-11

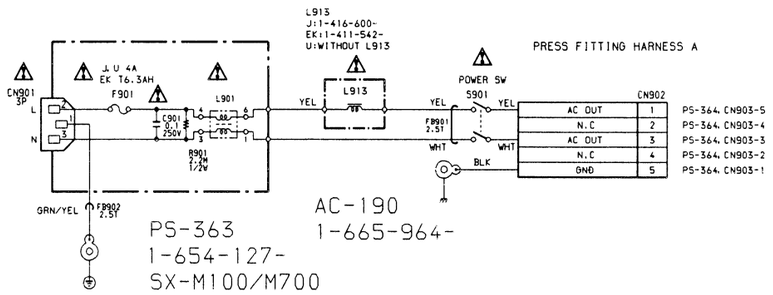
For SX-M700/M100/E120

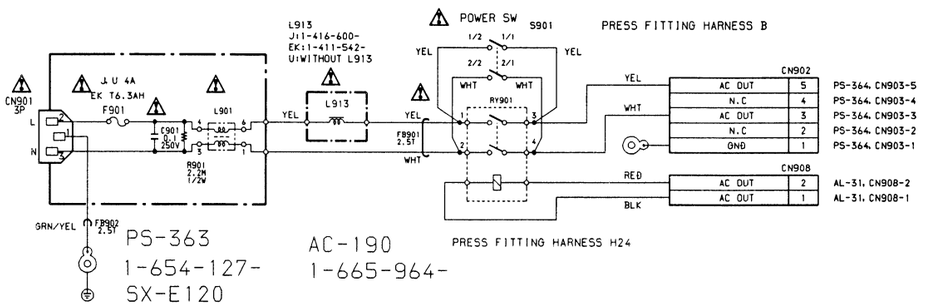
AC-190 : POWER LINE FILTER

PS-363 : AC LINE INPUT/LINE FILTER

PS-364 : SWITCHING REGULATOR







[NEW CONFIT POWER SUPPLY]

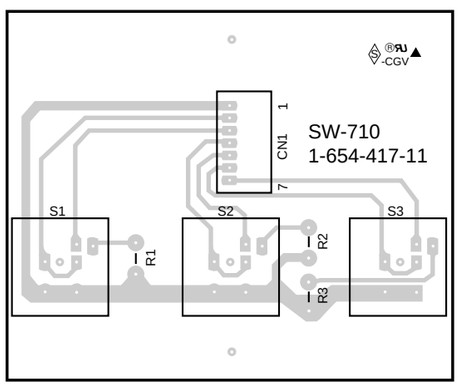
Note : The ⚠-marked components are critical to safety.
Replace only with same components as specified.

AC-190

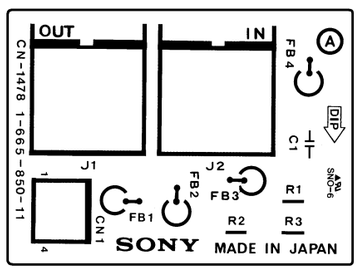
PS-363

PS-364

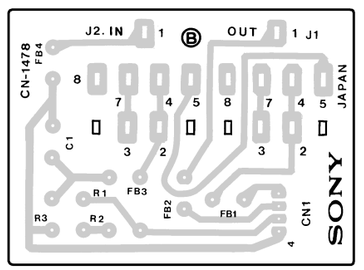
CN-1478, SW-710/722/723, TR-107, VR-237



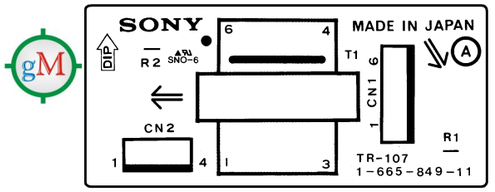
SW-710 -B SIDE-
1-654-417-11



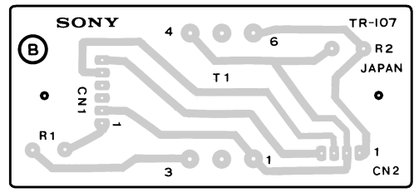
CN-1478 -A SIDE-
1-665-850-11



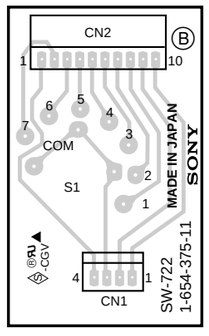
CN-1478 -B SIDE-
1-665-850-11



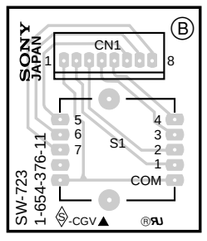
TR-107 -A SIDE-
1-665-849-11



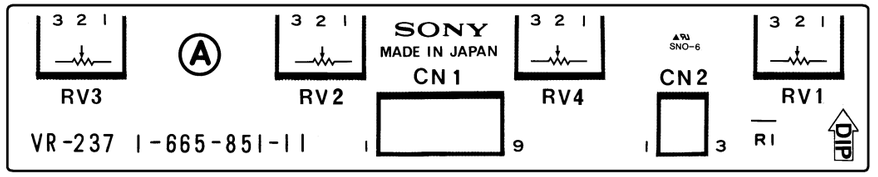
TR-107 -B SIDE-
1-665-849-11



SW-722 -B SIDE-
1-654-375-11



SW-723 -B SIDE-
1-654-376-11



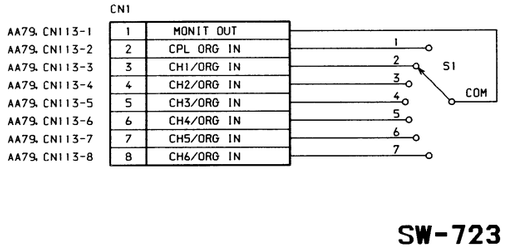
VR-237 -A SIDE-
1-665-851-11

9-34

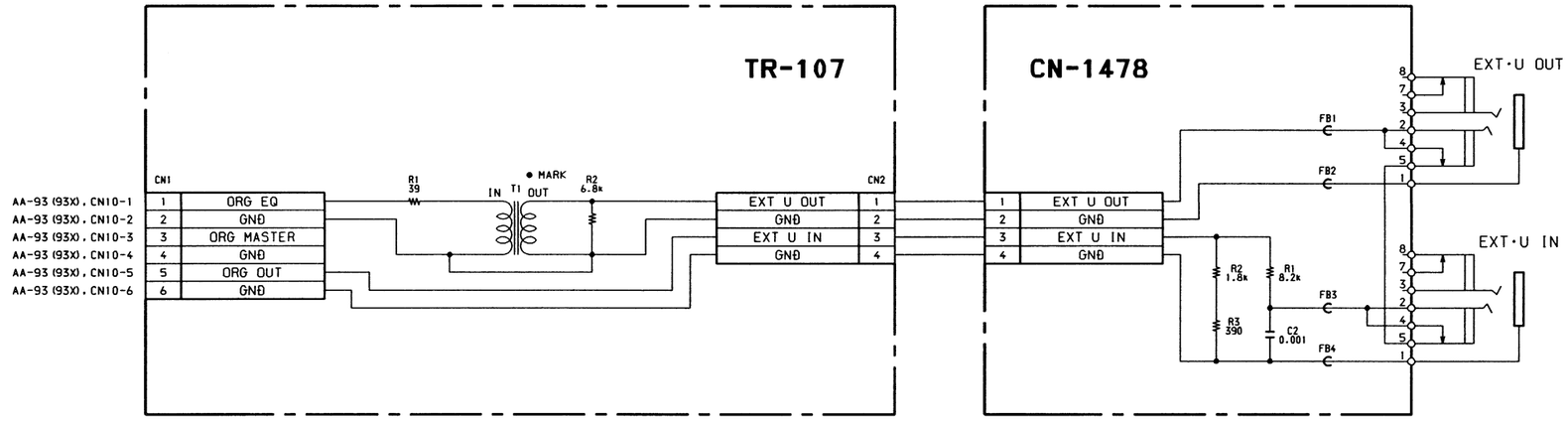
CN-1478, SW-710/722/723, TR-107, VR-237

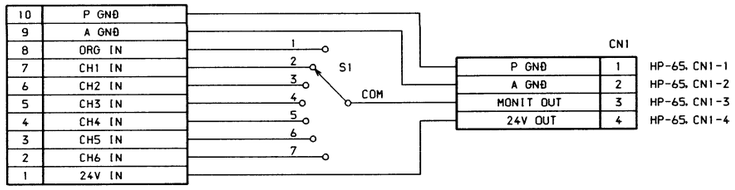
For SX-M700

SW-710 : MIC LIMIT/DIRECT ACCESS/SEAT ASSIGN SWITCH
SW-722 : MONITOR CHANNEL SELECTOR
SW-723 : TELEPHONE COUPLER SELECTION
CN-1478 : EXTERNAL UNIT SIGNAL INPUT/OUTPUT
TR-107 : MATCHING TRANSFORMER BOARD
VR-237 : VOLUME CONTROL

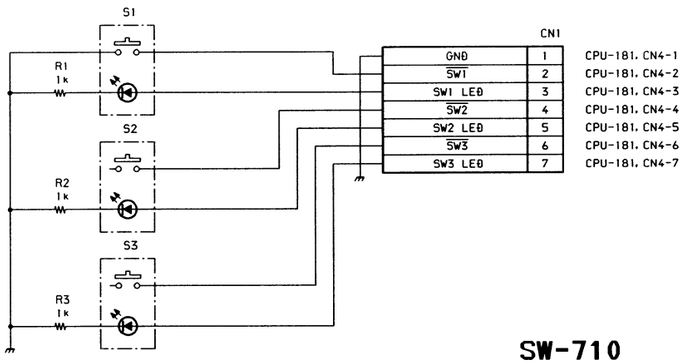


SW-723



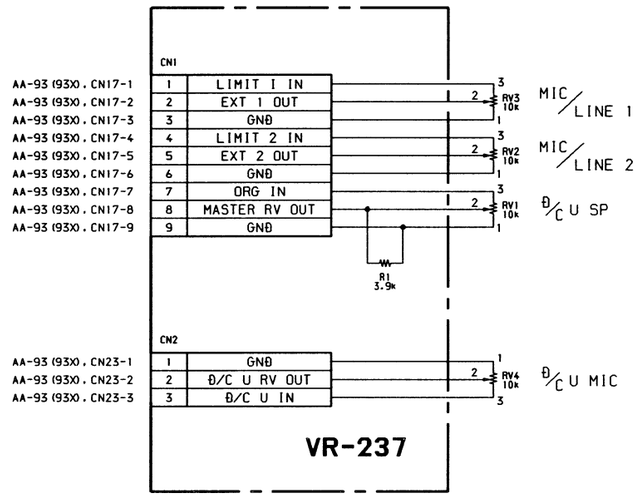


SW-722



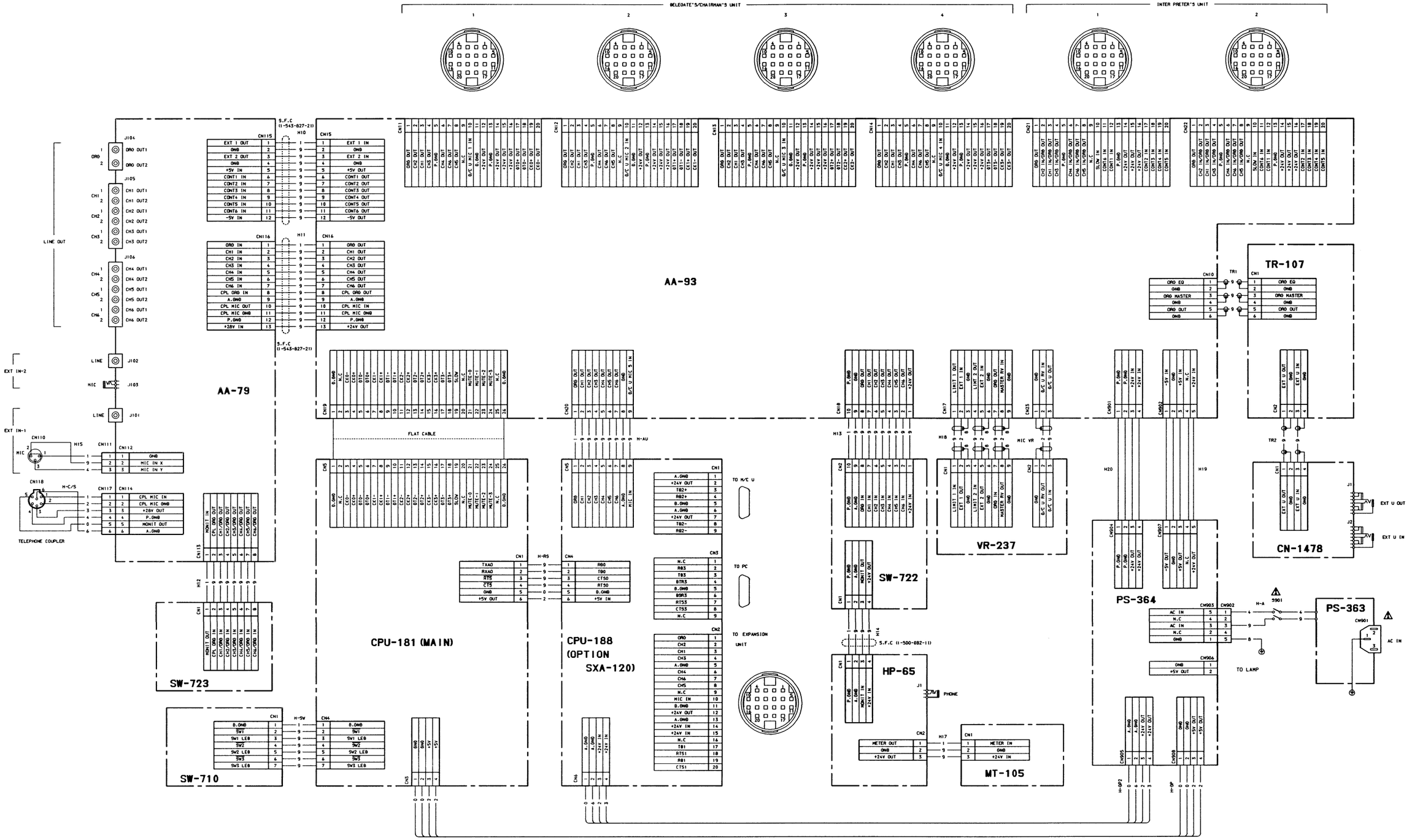
SW-710

SW-710
SW-722
SW-723



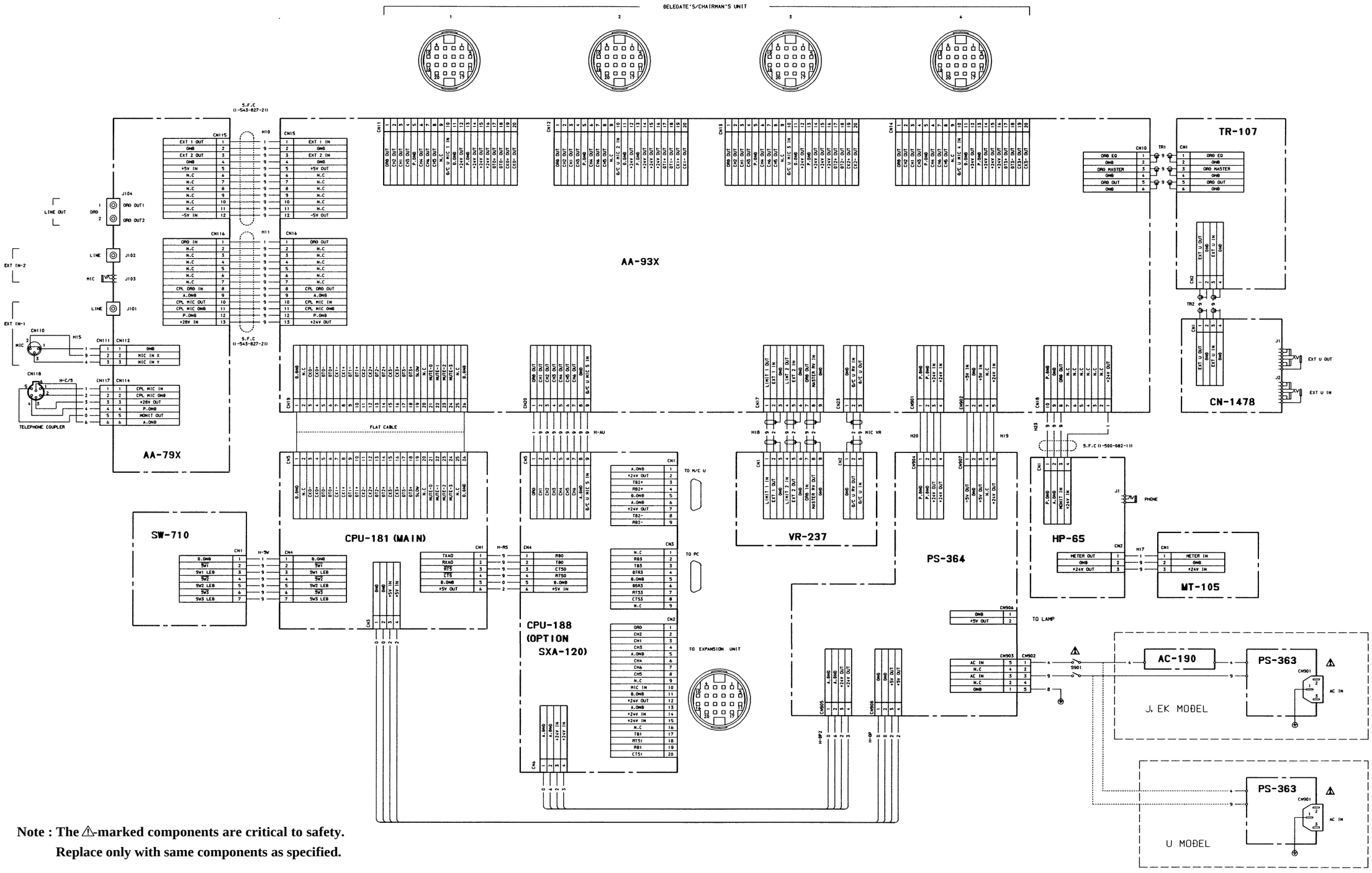
VR-237

CN-1478
TR-107
VR-237



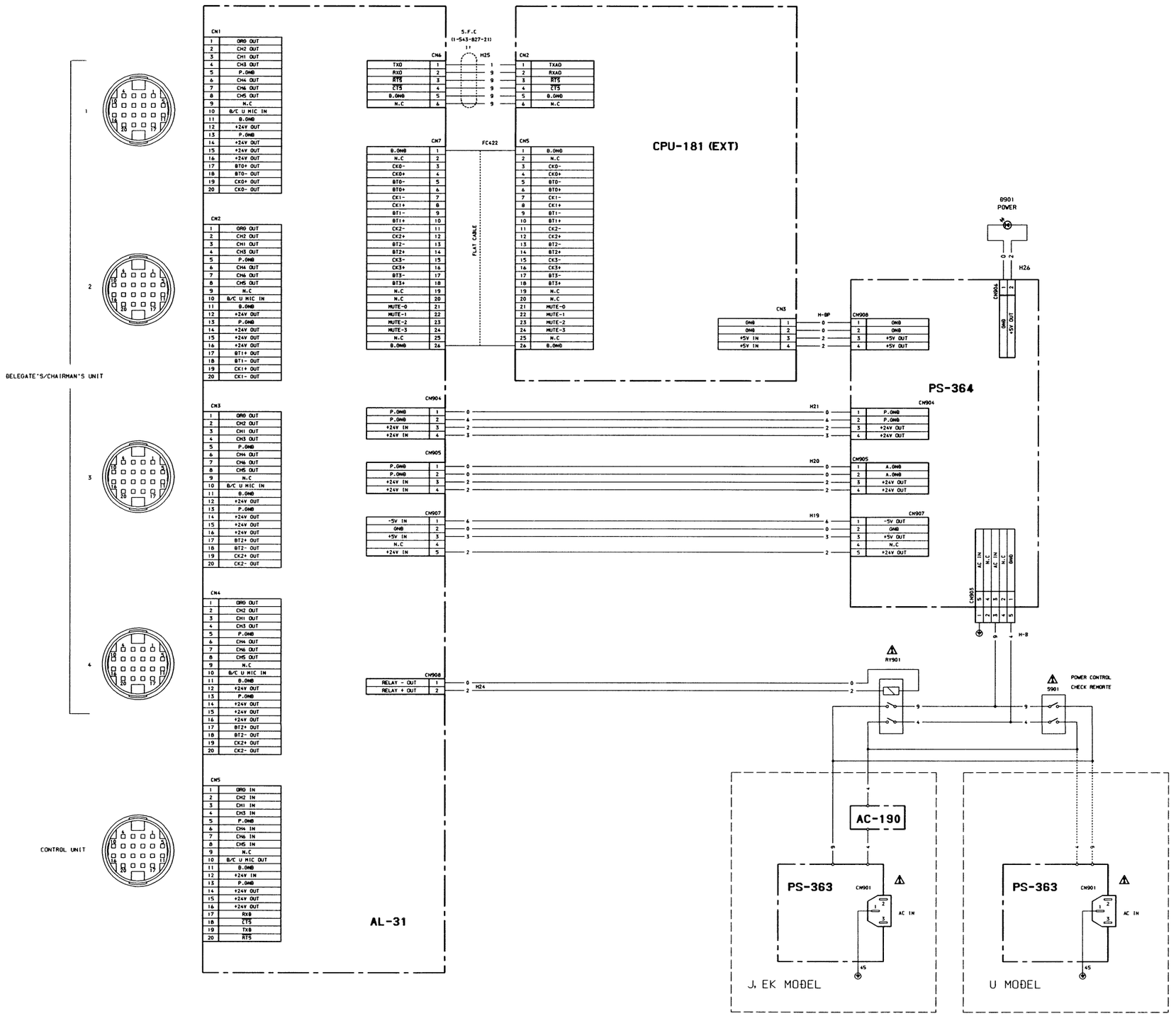
Note : The ⚠-marked components are critical to safety.
Replace only with same components as specified.

FRAME
SX-M700
SXA-120



Note : The ⚠-marked components are critical to safety.
Replace only with same components as specified.

FRAME
SX-M100
SXA-120



Note : The ⚠-marked components are critical to safety.
Replace only with same components as specified.

FRAME
SX-E120

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SX-M700 (J, U, EK) E
SX-M100 (J, U, EK) E
SX-E120 (J, U, EK) E
SXA-120
SX-T100
9-955-123-01

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